EXHIBIT 41

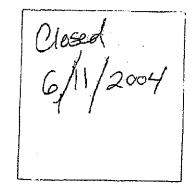


Recovery Filter Migration Remedial Action Plan SPA-04-04-02 April 21, 2004



Confidentiality Notice: This message contains information that may be confidential and privileged. If you have received this in error, and are not the intended recipient, you may not use, copy or disclose to anyone the message or any information contained in the message.





Recovery Filter Migration Remedial Action Plan SPA-04-04-02 April 21, 2004

Table of Contents

- Remedial Action Plan SPA-04-04-02
- II. MDR, Redacted Risk & Compliance, Redacted
- III. Complaint Record, Bard Peripheral Vascular
- IV. Redacted Emergency Services Document Record
- V. Certificate of Death, Dr. Banner, Carson City Hospital, MI
- VI. Patient Comparison Matrix, Bard Peripheral Vascular
- VII. Investigation Summary, Douglas Uelmen, BPV VP QA
- VIII. Photographs, Carson City Hospital, April 19, 2004
- IX. Recovery Filter Migration History Graph, Bard Peripheral Vascular
- X. MAUDE Database Summary & Graphs, Bard Peripheral Vascular
- XI. Removal of QC Hold, Chris Ganser, C.R. Bard VP Regulatory Sciences
- XII. Health Hazard Evaluation, Dr. John Lehmann
- XIII. Filter MDR Fatalities, Dr. John Lehmann
- XIV. Draft of IFU changes, Mary Edwards, BPV VP RA

Confidentialty Notice: This message contains information that may be confidential and privileged. If you have received this in oner, and are not the intended recipient, you may not use, copy or disclose to anyone the message or any information contained in the message.

emedial Action Pl SPA-04-04-02

Case 2:15-md-02641-DGC Document 8375-3 Filed 10/23/17 Page 5 of 160

To:

Doug Uelmen

From:

Pete Palermo

Date:

June 11, 2004

Subject:

Remedial Action Plan

BPV Recovery Filter - Migration (SPA04-04-02)

The above action plan was reviewed by the Corporate PAT on:

Date Reviewed:

April 22, 2004

Corporate PAT Reviewers:

Corporate Law:

D. Passero

Corporate RA:

B. Barry

Corporate Medical:

J. Lehman/D. Ciavarella

Corporate Ops:

J. Cherry

Corporate QA:

P. Palermo

Corporate PAT Recommendations:

A conference call was established with D. Uelmen, Division VP Quality Assurance, representing the BPV Division PAT and the Corporate PAT members on 4/22/04. The Corporate PAT concurs with the Division PAT recommendations with modifications to the action plan.

Revisions to the Division action plan were received by Corporate QA on 5/21/04.

Corporate PAT Recommendations were presented to Vice President, Regulatory Sciences:

Presented By:

P. Palermo

Date Presented:

April 24, 2004

Decision of the Vice President, Regulatory Sciences:

Action plan presented at 4/22/04 teleconference. VP Regulatory Sciences concurs with recommended Action plan.

Peter Palermo

Vice President, Quality Systems

Cc:

C. Ganser

J. Weiland

J. McDermott

Corporate PAT



Division Product Assessment Team Bard Peripheral Vascular Division Remedial Action Plan SPA 04-04-02

L. DeCant AS 16 19 04 M. Edwards	V.P. R&D	4/21/04 1/28/04
J. McDermott	President Total Toman Carra	Date 1 1 1 1 1 1 1 1 1
K. Shiftin	Michael C. Warren V.P. Marketing For Kevin Shift	10 Date 1 20/04
D. Uelmen	N.P. QA	1/21/05 Date 4-28-04

Confidentiality Notice: This message contains information that may be confidential and privileged. If you have received this in error, and are not the intended recipient, you may not use, copy or disclose to anyone the message or any information contained in the message.



Remedial Action Plan Bard Peripheral Vascular Division SPA-04-02 April 21, 2004

- I. Product Description and Intended Use
 - a. The Recovery Filter consists of twelve shape-memory nitinol wires emanating from the central nitinol sleeve. These twelve wires form two levels of filtration. The legs provide a lower level of filtration and fixation to the caval wall. The arms provide the upper level of filtration and help center the filter in the vessel. The Recovery Filter is intended to be used in vena cava circular diameters up to 28 mm.

The Recovery Filter Delivery System consists of a 7 French I.D. introducer sheath and dilator, the Recovery Filter, a storage tube with saline infusion port, and a pusher system. The Recovery Filter is packaged pre-loaded within the delivery storage tube.

- b. The Recovery Filter is a blood clot trapping device designed to prevent pulmonary embolism by mechanical filtration. The filter is implanted in the inferior vena cava (IVC). The Recovery Filter has the additional feature of being able to be percutaneously removed after Implantation. The Recovery Filter may be used as a permanent filter or be implanted temporarily to treat the temporary risk of pulmonary embolism. The Recovery Filter has the following indications for placement:
 - Pulmonary thromboembolism when anticoagulants are contraindicated.
 - 2. Failure of anticoagulant therapy in thromboembolic disease.
 - Emergency treatment following massive pulmonary embolism where the anticipated benefits of conventional therapy are reduced.
 - Chronic, recurrent pulmonary embolism where anticoagulant therapy has failed or is contraindicated.
- II. Manufacturer / Distributor
 - c. The product is manufactured by the Bard Glens Falls Operation, Queensbury, NY and distributed by the Bard Peripheral Vascular, Inc. through the Bard Distribution Center, Covington, GA.

Confidentiality Notice: This message contains information that may be confidential and privileged. If you have received this in error, and are not the intended recipient, you may not use, copy or disclose to anyone the message or any information contained in the message.

-1-



III. Identification of the Problem:

- a. On 4/14/04, a telephone message was left with BPV Field
 Assurance from Redacted of Redacted Risk and
 Compliance in Redacted She had been "notified by
 a medical examiner from another county about a patient who
 expired and the ME believed that the cause of death was an IVC
 filter that migrated." (Complaint Report # 5922, attached).
- b. The MedWatch report issued by the hospital indicated that the Recovery Filter was placed in the patient for deep vein thrombosis. The filter had been placed approximately 13 days prior to death, Record The patient was then released from the hospital on and expired on Record.
- c. As of 4/14/04 there had been six previous instances reported to BPV Field Assurance where the filter had migrated >2cm (Patient Comparison Matrix, attached).
 - Patient asymptomatic, the filter was removed without incident.
 - Patient asymptomatic, the filter was removed without incident.
 - 3. A 4 cm cephalad move, the filter remains in place.
 - Patient reported shortness of breath and light headedness.
 Surgical removal of the filter and clot without intraoperative or postoperative difficulties.
 - The interventional radiologist released the filter tilted 50 degrees with legs twisted. During an attempt to retrieve it that used a method contraindicated in the IFU, the filter migrated into the right atrium.
 - The inferior vena cava filter with large filter burden was dislodged by a large thrombus and migrated to the heart resulting in patient's death.
- d. The subject product lot number is 07LN2037.
 - 1. The lot contained 37 units.
 - 2. The subject product DHR was reviewed. There were no issues associated with the following:
 - i. Sub-assemblies
 - ii. MRRs (material review reports)
 - iii. Raw material testing (nitinol wire)
 - iv. Manufacturing processes
 - v. Quality Control Inspections
 - vi. A review of the complaint history records show no other complaints associated with this lot.
- e. There have been approximately 8,200 Recovery Filter units distributed since the product was released in April 2003.

Confidentiality Notice. This message contains information that may be confidential and privileged. If you have received this in error, and are not the intended recipient, you may not use, copy or disclose to anyone the message or any information contained in the message.

- 2 -



- f. On April 16, 2004;
 - 1. The Medical Examiner, Dr. Banner, and the Interventional Radiologist, Redested were contacted to obtain as much additional information as possible concerning the case (Investigation Summary, attached).
 - The Division PAT met to discuss the issue and agreed to immediately assign the necessary resources to aggressively complete an investigation into the incident.
 - 3. Bard Corporate Executive Management was notified.

IV. Medical Evaluation:

- a. See Heath Hazard Evaluation report attached.
- V. Number of units and lots involved:
 - a. There have been approximately 8,200 Recovery Filters distributed as of April 14, 2004.

VI. Distribution of Units

 Recovery Filters are being distributed in the United States, United Kingdom, Canada and Australia.

VII. Action Plan:

- a. On April 14, 2004, after the notification of the migration in Redact from Redacted Risk & Compliance, the Recovery Filter was placed "On Hold" pending completion of this action plan.
- b. The Divisional Product Assessment Team convened on April 16, 2004, to develop a Recovery Filter remedial action plan based on R-002 to guide this investigation.
- c. On April 19, 2004, members of the Division PAT met with Redacte Dr. Banner and Redacted Risk Management to inquire about information regarding this incident.
- d. The team met again on April 21, 2004 to discuss all information obtained in order to bring resolution to this issue. The following key facts were identified by the Product Assessment Team as a result of this meeting:
 - 1. Based on the information supplied by Redacted and Dr. the filter was properly placed.
 - 2. Clot formation was antemortem (Investigation Summary, attached).
 - 3. Thromboembolus measured approximately 3 cm by 5 cm (Investigation Summary, attached).

Confidentiality Notice: This message contains information that may be confidential and privileged. If you have received this in error, and are not the intended recipient, you may not use, copy or disclose to anyone the message or any information contained in the message.

- 3 --



- 4. There were no design or manufacturing defects found to be associated with the filter.
- 5. The Division Product Assessment Team (including the Medical Affairs Consultant) has reviewed data found within the Maude data base and IMS sales data (attached) in support of this remedial action plan. The limitations of the data are well known and identified in the Health Hazard Evaluation (attached). The Division PAT accepts the conclusion found on page one of the HHE.
- 6. The Division PAT has reviewed the migration rate for Recovery Filters comparing the data prior to receiving 510(k) concurrence for the recovery indication (April through July 2003) with post recovery indication data (August 2003 to present). We conclude that although all migration issues occurred after August 2003, there was an insufficient quantity of product in the market prior to August 2003 (826 units) to provide a meaningful comparison.
- The Hospital MDR attached (based on verbal information) was filed on April 13, 2004 (Mfr. Report Number 230038-2004-0002, attached).
- f. The BPV Product Assessment Team has concluded that the Recovery Filter captured a large embolic load with resulting increase in venous pressure that lead to inferior vena cava dilatation greater than 28 mm resulting in migration.
- g. The Division PAT has defined migration as vena cava filter movement >2 cm from the deployed location (as defined in the Journal of Vascular and Interventional Radiology (2001) Vol. 12:137-141).
- h. The Division PAT has defined massive clot as: thrombus of sufficient size to cause the internal diameter of the inferior vena cava to distend beyond the maximum size indicated for the vena cava filter in the Instruction for Use.
- The migration categories have been updated to address death due to migration and migration due to causes other than thromboemboli.
- j. The following migration categories have been identified to aid in risk assessment:
 - Migration resulting in patient death related to thromboemboli.
 - 2. Migration resulting in death unrelated to thromboemboli.
 - 3. Surgical Intervention after successful deployment.
 - 4. Surgical intervention as a result of an unsuccessful deployment.
 - 5. Minimally invasive interventions required after a successful deployment.

Confidentiality Notice: This message contains information that may be confidential and privileged. If you have received this in error, and are not the intended recipient, you may not use, copy or disclose to anyone the message or any information contained in the message.

-4-



- Minimally invasive interventions required after an unsuccessful deployment.
- 7. No intervention required after a successful deployment.
- 8. No intervention required after an unsuccessful deployment.
- k. Migration resulting in patient death requires the Division PAT to convene immediately and initiate an investigation per R-002. If the cause of the event is an anticipated adverse event and the occurrence rate does not exceed accepted frequency, the product will continue to be marketed during the investigation. If at any time during the investigation, data shows the cause of the event to be unrelated to massive thromboemboli, the Division PAT shall immediately review all data gathered during the investigation and re-evaluate the status of the product as the investigation is completed per RA-002 (massive thromboemboli as defined above in section VII.h).
- I. Vena Cava Filter Adverse Event frequency rates will be reviewed on a quarterly basis. Rates will be obtained from: Maude, IMS, Lexis / Nexis and other medical literature as identified during the search. A comparison of the Recovery Vena Cava Filter to all other Vena Cava Filters will be completed. Frequency rates will be compared to assure that adverse events associated with the Recovery Filter are not occurring with excess frequency. Although this report will be an important element in deciding product status, the Division PAT realizes that comparative attempts to assess similar events via the above mentioned information sources do not yield reliable quantitative estimates for the following reasons:
 - 1. Potential under-reporting (Maude).
 - 2. Potential over-reporting (IMS, sales data can only be roughly estimated).
 - 3. Inadequate description of events in the Maude database, resulting in potential misclassification.
 - 4. Very low frequency of events
 - High variability in event rates and sales rates across devices and time periods
- m. A comparison of this data will be completed on a quarterly basis and provided to Division Management with executive responsibility during Management Review. This comparative information will be maintained for use in frequency rate comparisons for future Vena Cava Filter action plans. If the data results in a change of the frequency category from "remote" to "occasional" (reference the Hazard Risk Assessment Matrix found in appendix B of RA-STD-002 Rev. 08) the Division PAT will reconvene to review the issue and develop a remedial action plan.
- n. The product was removed from Hold status on April 25, 2004 upon receipt of a Health Hazard Evaluation provided by Redact Redacte Distribution commenced on April 26, 2004.

Confidentiality Notice: This message contains information that may be confidential and privileged. If you have received this in error, and are not the intended recipient, you may not use, copy or disclose to anyone the message or any information contained in the message.

-5-

- o. An independent clinician review panel will be convened during Q2 2004. The panel will consist of Interventional Radiologists and Vascular Medicine Specialists to discuss DVT and its treatment. J. Hudnall will identify the clinicians and develop the agenda by the end of May and schedule a June meeting.
- p. Labeling will be updated to clarify issues concerning migration including the severity of the consequences. M. Edwards will complete this task by the end of May (please see the attached draft of IFU changes).
- q. Obtain the final Pathology Report (May 11, 2004).

VIII. Product Correction:

a. There has been no device design or manufacturing problem that was identified as contributing to the patient death associated with the Complaint Report (attached) of this investigation. No field action is recommended at this time.

Confidentially Notice: This message contains information that may be confidential and privileged. If you have received this in error, and are not the intended recipient, you may not use, copy or disclose to anyone the message or any information contained in the message.

Bard Limited Forest House, Tilgate Forest Business Park Brighton Road, Crawley West Sussex RH11 9BP England, U.K.



To:

Shari Allen

From:

David Marshall

Date:

1st March 2005

Subject:

Recovery Filter

As European Authorised Representative for C. R. Bard Inc., I confirm that I have acted on behalf of Bard Peripheral Vascular Division (BPV) with respect to the Recovery Filter as follows:

I have received notification from BPV regarding changes to the product IFU, generated in the light of worldwide clinical experience and reviewed and agreed by FDA. I understand these changes to have been developed in part as a result of adverse incidents reported in the USA market. Understanding that such adverse incidents, occurring outside the EU and resulting in what might be considered to be a corrective action by the manufacturer, might also be considered to require a Vigilance reporting obligation within the EU, I have consulted with MHRA. The MHRA Product Specialist has reviewed and agreed the IFU changes, understands the rationale for their development and has received and has reviewed worldwide statistics for adverse incidents concerning this product. The MHRA are satisfied with BPV's diligence with regard to these issues and has approved the process for informing Doctors, which has been completed to the Agency's satisfaction.

In light of this comprehensive consultation process with the relevant European Competent Authority I believe that we have adequately discharged any obligation to notify adverse events occurring outside Europe for this product to date. I know that BPV will continue to monitor whether any further such notification might be appropriate in future.

Yours sincerely

David Marshall

Director of Regulatory Affairs & Quality Assurance

Bard Europe

Telephone: 01293 527888 * Fax: 01293 552428 Registered Office as above. Registered in England No. 939600



04/14/2004 15:36 PAX 618 391 8486	RISE & CO	MPLIANCE R			Q 002	
			Pe	eMD ziewingak ms	No. 8319-0291, B	ne espe
A'S' Difficultivity of highly and become governor			MIFRODOT 4	······································	Sep Division	(\$1) pr levers
MEDWATCH	importers, distribut	user-facilities, pre and manufactures TOR Y reporting	· `	pot# 20 = 2nncl	- ~~~ i	
The FOA Sofety information and Adverse Event Reporting Program		_ of <u>2</u> _		3K - EC 152		
		C SUSPECTATED	and the second			PDAULD Daily
A. PATIENT INFORMATION	1. Tax	1. Name (Give Intelled str		l'impire)		1345
Redele di Byasii		ip1		•		
011	- 2 Famels Dat	#2	······································			
In communication and surply Red action	Hala	2. Dane, Froquency & Ro	outs Used	3. Therapy Ozn	a rafunkaswa a	Ava Geretion)
B. ADVERSE EVENT OR PRODUCT PROBL	EM		2	hamfa larba	desimate)	
1. X Austran Brant ander X freduct freblin	(e.g., celectrimstructions)	#1		<u> </u>		
Z. Outcomés Atmbuled to Advirse Event Disablic (Check of that suply)	7	142	,	#Z		
	lai Ancreay	4. Diagnosister lise find	inarian)	5. 5 vs.	nt Alcound After pped or Dose R	। । अर्थसम्बद्धी
(molecular)	d internation to Prevent	# [<u> </u>	x5 E	7 m	Dean's
	ersined Unanticant to	#2	7	- رو اسب	Yes No	DC45h1
Hospitamaticn - Virilar or protongeo Uniter:		S. LET A (P (DIOSH)	7. Exp. Date (d)			ACTLY
3. Data of Even) (motion/wat) 4: Data of th	is Report (martsyrou)	<u> </u>	B1		nt Rosposited . Broduction?	
Redacted 04(13/64	¥2	972	n [Yes Nc	Dueso.
		3. HDC# (Por product expl	(etaz osky)	2	Yes DNo	Doesn't
Contacted by Medical Exam	ا ہ	10. Consentiant Medical	Description and The			~++17
by medical Evan	never of	in Chuseuman wanter	LUCKER 100 154	tath names textric	M EVERNARIA OF 9	nenti
thouse country or Norther to	- matridust	Ì				1
& discharged from hospital a						
, , , , , , , , , , , , , , , , , , , ,	n Recei		•			
Patriorathed W. Filter 1010	ted	D. SUSPECTMEDI	CAL DEVICE	国家工作	THE PERSON NAMED IN	is made
11	ced after	1, Brand Name CR	Rand			
developing DVTs prior to dus initial results of post morted IVC filter in right ventor perforation. Medical reported parient had a complication of b	ilana Dirivi	2. Type of Device O	1	1	-05-1	
Blacker - H C	प्राथक्षर . Testrent's	3, Nanidacturar Hama, Ci		ter trino	Tax. V	
initial results of post mort	المنب مواد		- •		1	
I've filter in right vento	and a second	David ten photo	<u>Q Vasaukur</u>	1-2 march	5. Operalari	m2D-vil-
- Dectacation made	toksing	RFA48F	07	U2037	- DHENT	3
perforation Medical	examinen	Catalog #		er Bath (readisy);)	Diay Up	l l
reported patient kan	tulal	# Ichad	SQ Direct	. 07		
E CUMPICATION OF A	Iter. Caught	adiata	0			
a complication of fi cargo burden of clot.	listodated	6. Himplanted Give Date	(accepts)	7. If Explanad, G	ive Dale (modi	1777
and perturated to		E. is this a Single-case Day	the that was Base		asi on a Batis as	
and periodical con-	7"	YAL X NE	in nor and today			
		S. If You to from No. 8, Ent	er Name and Add	use of Reprosess	or .	
·	1					1
	ł	1				ì
		10. Davice Available for Li	rakvanen? (Go sor	sond to FUA)		
	į	☐ Yes ☑ Hs	Raturyad to 14:	enebolitet ont	irao/daybyr	1
		11. Constant ant Nedical P	roducte and Tear	apy Cules (Escho		
T. Other Relevant Kistory, including Presateling Madical C reco, preparity, proking and alcohol use, improprietely,	enditions (e.g., etergias, crimston, etc.)			•	•	•
I .	J.					
thamilted on Reda for Sub	acrosthroid	E MITIAL REPORT	ESSENCE SE	Sec. 188	e de la	
. Homerhage		1. Name and Address	Taker			Parket
	ł	CASSISTANCE ASSISTAN		Redacte	IC BE	
						- 1
		Re	dacted			
						1
Submission of a report do	on not consilibria					. [
11 Land Tacomy, importer, distribute	t. manufacturer or	2. Hexith Projectional? 3.		4.	inkizi Reporter Report to FDA	Also Bent
FORM FDA 3500A 19/031	ed to the event.	Yat No	en		I Yes No	

Ø1003

04/14/2004 15:36 FAI 616 381 9486 RISK & COMPLIANCE R

Medication and De Experience Report		Submission of a ropor on admission that me facility, importer, distrib	ical personnel, usor Poble > uton intituitacturor or possessurants	arthent of Nealth and Priman Service Bark Brives - Food Bis Ding Advinestald
(Continued)		product caused or conti	louted to the event.	
Refer to guidantes for specific	cinstructions.	Page	2105	
T. FOR USERY USER FA	ICILITY/MPORTER	(Devices Only) 🖘 🕬	.H. DEVICE MANUFACTURERS OF	ILY TO ESTATE OF THE STATE OF
1. Chark One		er Report Humber	1. Type at Reportable Event	2. If Fellowing, Miles Type?
User Facility or Insporter Name	ومنات البيا	58-8004-0002	Death	Corrector
A LICENSE AND A	NAME OF THE PARTY	531535	Serious kipuny Malituredor.	Additional Information
n. i			Other	Derice Evaluation
Red	acted		1. Doving Evenusied by Manufacturer?	d. Davigo Manufactura Dala (INOA)
			Nor Relument to Minufatture:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
4 Contact Person		Number	Yes Explusion Summary Allech	ac .
Redacted	VISAVIZARA 1.	edacted	No (Altern page to emplein why not) or provide social	5. Lakelector Single Use?
importer Receipe	7. Typo of Report	5 Date of This Report	pribate acta:	☐Y# ☐N□
Airtie of Event (Action)	医 PRIN	5411 ·	5. Eveluetion Cadas (Reforto cooks) minus)	
04 13 04	Fisherup #	_ b4/15/04		
Aprofitous:	rablem Codes (Fisher to c	SQUÉ MANTEL	Method	
Patient Cods	303		KESTURE	
Caso I	36 - 17	35]-[Conducions	
11. Report Sent to FDA?	12. Location Where Eve		7, 2 Remedial Action Millated, Creek Type	3 Braga of Davice
R 1= 0414104	Hospital	Outpatient Diagnostic Facility	Resal Notification	☐ Initial Usa of Device
(ייניעללובחון או	☐ Kome		Resalt Irreption	Revise
12, Report Seru la Vanutschirar?	Nursing Home	Antiquatry Surplied Feeling	Reptace Patient Mostering	Unksawa
BYES DYLY DEL	Li Duttadon: Trassi Factory	Per I	Relateding Street Adjustment	9. If action reported to FOA vader 21 USC 31040, Not currentloss' somewal reporting number:
□ No (matery)NY)	One: Line	(5p+2ig)	□ Oper:	tersion is barned imment:
14, Manufacturer Namie/Addirect	·		-	.
CR Bard		1	10. Acetional Resultatives Natiative	and or 11. Durected Data
Tempe AZ				
			1	
G. ALL MANUFACTURERS				•
for Davices)	land services and des	A CARRIE MANAGE	1	
		1. Report Source	1	i
		(Chack at that apply)		• •
		Study	{	
İ		Candrit		
		Consumer		
	, : - 1	Hastin Professional	1	
1. Dots Received by Manufacturer provideytyr)	S.	Campusy		
	(A)NDA &	Revisionalina Democrat	1	
8. If IND, Give Protecols	IND #	Our		
	Pro-1832 TV=			ļ
7. रिप्रांक को विकारण (27कटक समाधान स्टूमपूर)	orc -			· ·
	LIAMIC			,
10 today Pertoon	B. Adverse Event Terrif	9	-	
Trakini 🗍 Fotow-up 🕸	-	j		
9. Maautschier Réport Kumbet				
		1		
The stutic reporting burton for this call hour per meporte, including the in- sources, gethining and maintaining solution of internation. Sum common after colorion of internation, landing FORM FDA 350DA (9/03) (E	the days needed, and composition a supplemental town to the control of the contro	and, 2000 and emillion for	Department of Height and Human Soviets Took and Doup Admittation Hoofstein, HD-141 600 Februa Lara Rock/Ba. MD 20857 Prices DO HOT RETURN this form or his addres	DMB Statement: The agency first next consists or apprice, the agency first next provided to reacone to, a collection of information unless is established to common comments as comments.



04/21/2004 Page: 1

COMPLAINT RECORD DETAIL REPORT

Complaint: 5992

Complaint Entered By: Walcott, Cindi Date Opened: 4/15/04 10:24 am Pending Investigation Complaint Status: Complainant Information:

Short Description:

RF-048F Migration

Country of Event : United States

Customer Contact Name:

Phone:

Customer Medical Facility / Organization:

Redacted

Redacted

Report Source: User Facility Complainant Contact Name:

Redacted Vec

Health Professional: Phone: Redacted

Complainant Medical Facility / Organization:

Business Unit:

Interventional

R.N., Risk Coordinator

Title/Dept: Email:

Report Source - Other:

Occupation: R.N. Risk Coordinator

Email:

Sales Rep: BourBezu, Dave Results Letter Requested?:

Acknowledgement Method:

Contact Log:

4/14/04 C.Walcott spoke with Redacte at Redacted Risk and Compliance Dept. Stated that the patient was not a bariatric patient. Dr Banner from Montcalm county was the medical examiner who performed the autopsy and reported the incident to the hospital.-989-584-3131, x 214. Hospital sent MDR to FDA on 4/14/04. Faxed copy to BPV on 4/14.

4/15/04 C. Walcott left voice mail at 10:30am for Dr. Banner at Carson City Hospital, Requested return phone call. Spoke with receptionist at more office. She stated that the doctor did wish to speak with us. However, he was in a case and had several to follow. She stated that he would not be able to contact us until tomorrow. Left C. Walcott and Janet Hudnall's

4/16/04 Dr. Banner left voice mail for C. Walcott at 6am

4/16/04 C.Walcott spoke to Dr. Banner at 8:30am. Dr. Banner stated that the would not allow anyone to touch the specimen (filter/clot). He stated this event is now involved in litigation. He had not performed histology on the clot, but stated by appearance it was an antemortem clot. He stated that any comments about where the clot formed (legs/vens cava/heart) would be supposition. He stated that the ventricle ruptured. Br. Banner reported that the family informed him that the patient would be cremated today and reported that the pt's. son's name was Recart 1808-844-1012. A conference call was set up with Dr. Banner at 2pm EDT today.

4/16/04 Teleconference with Dr. Banner, D.Uelmen, J.Hudnall, R.Carr, C. Walcott: Dr. Banner stated that the current measured size of the clot was 2.5cm x 4.5cm. He stated that the clot shrank from the original estimated size of 3cm x 5cm due to the formalia fixative. He stated that the filter "prongs" had penetrated the right ventricle. The patient experienced cardiac tamponade and heart rupture. Dr. Banner estimated the cave size to be "33.5cm" in diameter at the time of autopsy. Dr. Banner stated he contacted the patient's family and told them Bard had contacted him and Bard "was handling

the investigation in a forthright manner".

4/16/04 Teleconference with Redacted Interventional Radiologist, D.Uelmen, J.Hudnall, R. Carr, and C. Walcott. stated that the filter was initially placed 1-1.5 cm below the renal vessels. He stated it was an ideal placement and deployment. All legs deployed and filter was straight. He stated he DID NOT measure the year cava size prior to placement. Filter indication: Pt. developed DVT's while in the hospitul for treatment for a subarachnoid hemorrhage,

 $\Pi S \Lambda \backslash \Pi R \Pi D$

04/21/2004 Page : 1

COMPLAINT RECORD DETAIL REPORT

Complaint: 5992

which contraindicated the use of anticoagulants. **Recart** asked if this type of event had bappened before, as other company's representatives have informed him that there were "numerous" events. D. Uelmen reviewed the Recovery Filter

4/19/04 Dr. Banner met with Doug Uelmen, Rob Carr and Janet Hudnell at Carson City Hospital. Digital pictures were taken of the clot. Clot, after fixation measured 2.5cm x 4.5cm. Dr. Banner stated that there were small PE in the lungs, and the clot in the filter was ante-mortem. X-rays of the filter show that the filter was in tact, with all of the arms and legs, and hooks attached. Final autopsy report will be available the week of May 4.

4/19/04 Meeting with Interventional Radiologist, Redacted is chairman of the department and was not the implanting physician. It was confirmed that the cava size was not measured predeployment, but stated it was an appropriate size. There was a sizing catheter seen in the cava on reviewing the films. A post deployment cavagram was not taken. Therefore, it could not be determined if the legs were properly engaged. The Xrays were not released to Bard.

Product Information:

Product Catalog No: RF048F

Product Minor: 605 Product Major: 45

Product Segment: 42

Recovery Filter Froduct Name:

Type of Device: Vena Cava Filter Trending Group:

Manufacturing Site: CR BARD, INC.

Manufacturing Lot No:

Corporate Lot No: 07LN2037

Serial No:

Expiration Date: 02/2007

Event Information:

Date of Event: Event Description:

Date of Awareness:

04/14/2004

It was reported that the patient had an IVC filter placed after developing DVT's prior to discharge from the hospitalThe patient died at home 7 days after discharge from the hospital. The initial results of the post morton reveals the IVC filter in the right ventricle, causing perforation. The medical examiner reported to the hospital that the patient had a fatal complication of the implantation. The filter caught a large burden of clot, dislodged the filter, and perforated the right ventricle.

US Reportability Category:

M - MDR Reportable

Europe Reportability Category:

Other FDA Report Number:

230038-2004-0002

Canadian Reportability Category: N/A

Other FDA Report Date:

04/14/2004

Other Vigitance Report Number;

Location of Event:

Home Relevant Tests and Lab Data:

Date of Death:

Redacte

Operator of Device:

Health Professional

Operator Name: Implant Month:

Redacted Implant Day:

Implant Year:

Usage of Device:

Initial

Operator of Device-Other:

Operator Phone: Explant Month:

Explant Day: Explant Year: Redacted

Type of Procedure: Vena Cava Filter insertion-Femoral

 $\mathbb{R}M\mathbb{R}\mathbb{D}$

04/21/2004 Page: 1

COMPLAINT RECORD DETAIL REPORT

Complaint: 5992

FDA Device Code - FA:

1395 - Migration

Sub-Device Code - FA:

Redact

Patient Information:

Patient Name:

Age at Time of Event:

55

Patient ID:

Weight: 80 Kgs

Other Relevant History:

Sex: F Patient Code:

Admitted to the hospital on for subarachnoid hemmorrhage.

Yes

Concomitant Therapy:

Sample Request:

Sample Available: Unknown

Investigation Required?: Invest. Exemption Rationale: X-Ray/Photo:

Quantity Affected:

First Date Sample Requested :

Non-destructive Testing Requested: International Sample Return'No :

Sample Return No:

International Sample Receipt Date:

Quantity Expected to be Returned:

Sample Recieved Information:

Date Sample Received from Customer:

Sample Disposition :

Quantity Returned:

Additional Information:

Service Record No:

Attachements:

5992.doc

Reference Complaint 1: 3rd Party Report No :

Reference Complaint 2:

Customer Accomodation Type:

None

Customer Accomodation Details:

BAIRD

04/21/2004

Page: 1

COMPLAINT RECORD DETAIL REPORT

Complaint: 5992

Closure:

Complaint Summary:

Closed By:

Closed Date:

Children Records:

Date Opened 04/15/2004

04/15/2004 04/15/2004 Rec ID Record Type 6070 MDR 5997 MDR Decision Tree 6025 Investigation

Assigned To Cindi Walcott Cindi Walcott Chris Dorvee

Status Opened Closed - Done Opened

Emergency Services
Document Record

MONTCALM COUNTY EMERGENCY SERVICES DOCUMENTATION RECORD															
TRANSPORT PATENT NUMBER RECEIVED UNIT / INCIDENT #															
-	Location of Indices Name of Coli MED Acapona of From TIME INFORMATION														
		ار مادان دروس			15	5 Del				~	+4			-	0939
TELEBRIC			(C. 1977)	-	4-	7 3761	<u></u>			<u>''</u>	,	w . 1	- ; ;	Disparched	0940
A STATE OF THE STA			T Ex	1 hame		I Aird I . S	i92 T	Pagne Num	d Condic	·	ate of Big	C V	Age	En Route	
Palari	A PERSONAL PROPERTY OF THE PERSONAL PROPERTY O	2	4				7	`		i			51	Al Scene	1003
		f		3.建设			0 666	<u>') </u>	- A	N.				At Palient (est.) -	1005
Palleri Addra	as (Street NO. 1.)	iane) Bermalin		enes.		City		1	5130s	13				Depart Scene	
									W_{i}				7	At Dust.	
NECHANISM	OFINAURY	,	•						IMPA		YPE		ANISM	Available	*
E Medica	(. [Ū F∧	na)	Angle Side	العة []	6-10"	End of Run	
CHIEF COMP	LAINT) ·o A							O Pa	sc. \$1	Kąc Świt	D 5-13	MPH	Weight (Kig.)	Prixity
CLINICAL ##		,	Do	1						ove.		D 31-4	MPH HPLKO	80	5
510059750	FRE VIVAE	7-9-6E		M Seese	72 P. 199		WASSES!	SMENTS		kaow Kinic	n Se coec	□ > to	MPH	1	and the lands
THATE	BLOOD PRESSURE	PUL RATE		RESPI	RATION	BREATH L SOUNDS R		PUPILS	GC		EK		p02	COMMI	
	PACSSURE	-C-			1	A55 1465		D = A	1, 1	1		s-ole	-		
10.67		177		-		100	1.41	V-A	11:	-1 -	1.729	570/C			
							 	 	++	:-	 		}		
					ļ	<u> </u>	 -		+-	÷					· ,
	<u> </u>					ļl	 		 	ļ				······································	
salutinos de la ciona	e e e e e e e e e e e e e e e e e e e	0.47-0.4	A				PHOTO PAREN	PTONUE	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	enter.	Marie 1	. Satis≡ si	A 1011010	പട്ടത്തിയിരുന്നു	
1	を記述がMED	i.	Sakara	erigins:	eremone.	Astron		COPO	200	_	penc:	10:120:00	ALIER		OD GLUCOSE:
	41.12 B	Vivi	1-01/	<u> </u>		CADG		Hysiotlensio Ali	n —	_0	ATAN SLOB STOL	. —		i i i i i i i i i i i i i i i i i i i	
L WY	$\lambda i a_{ m tot}$	2	·			Cancer		Nocent Sur			thacco Lit	se }		100	E. T.C.C.
	<u></u>					Dabetes	or hands	Retai Falka His milli	Or of	-,T.		*	·	~ ——	
ania managa pada bara	Programme Policia se	ni (zasira)	TA NEW AND		Hous	Other Staff		المادين معرب سياط	900	<u> 7</u>	W.*17"	7	3.00**	ASHEDA	(0.000)00000000000000000000000000000000
			ANAGI	EMPII CESS			1	666696 1		1	1.4	TIEMETI	,	SCHOOL ALTONOMIC RATE	
TIME	PROCEDURE	3028	\$00	CESS	87	OXYGEN	TitVE	si	TE ,	- 31	ze 5	UCCESS	BY	TOTAL VOLUME	.
				'			ļ			-			! -	/	
· · · · ·				, -		FLON				 				<u> </u>	
		 -		'			Namative	٠ـــــ		<u> </u>				/m	
				<u>/</u>		- NC 🗆		<u> </u>	<i>,</i> ∆,c	Ju.	ا د د ا	1 2	وبر_ ا	pri office	だられ!
· · · · ·		ļ	<u>. `</u>	<u>/·</u>		→ MASK □	1305	راء في	nda Zi i	á	Cro	in Bu	o #	Redac	l č
871	SE INFORMATE		_	/ Makeu	AL CIANE	HANATAHAN	SIA		1	1			-	1-3-1	,
SECURED BY:	HAIGH []	Tit:			,	,	30.5	uech	<u> </u>			تدحو		70 4: 24:	<u> </u>
# NEURC	VASCULAR					UMA: CE	A. APU	vity w	<u> 21</u>	٤.	(Mg	diece:	1104-3	Ce +14 co	<u> Dx.</u>
TIME	Left Right Arm Arm	Lett	Leg	.] ⊜ 52m	illan 19	indication w	7h b	500 TE	nec	1	0 f 3	Linhe K	أأعلى	being 9	wir d
1007	<u> </u>				nio mino	DLOC D	Acces	مل ا		ij	5 	Do A	, i	J Bred.	
		_	<u> </u>	Die.	r Pass.	DLOC DSvost, Use DIMS Deficit D	1	······································		<u> </u>				· i	
				Res	Pass. N		A)EA	10.	<u>, 4</u>	<u></u>	100	RL	R id	Bid. Cov	1875.0 E.
			<u> </u>	∭3Rs		UStoo U	Linist	AVO	χü	_6	ما ڪ	C 4	E. E. N	TINCAP	E E NSF
Driver	2.2.	PERS	ONNEL	- 20 - 9	41.3	Market	n.j. 3	: a	COL	İL	s' v €r	fr.r.	15	300 A	iere in
 	A - D- 7				. 3		1	, -,	G	1	Ac.			্ব	C ;
Vicegathi/ K	HAPEK. CALE		<u> </u>		<u> </u>		من، عدد	<u> </u>	m	<u> </u>	Mag	ii (16 T	<u> 40 (</u>	Corrag Pyer	b itccitions
		DEST	NATION	lui els	and the state of	98350000000	C- 1	<u> </u>	· c · .)	<u> </u>	<u> </u>	<u> </u>	한	<u>Pranounce</u>	de 6 1007
Fadity C	CH Mo	rque		_ ::		elannination	L. Dr.	Aik	الأسرع	Ť	Cbi	es Mi	n.K -	Thomakasen	Co19 234
Physician Norte	BOAT	se'r	•	Ιŏ		i Appropriate Fanity Request	0 .	ب تعاملت مس. د د ر ب <u>ج</u>			ů,	- 0		-	
Physiclan Signa				E	Kafa	Control	X tal	<u> </u>	, ii 1 3 t i	لمتن	***	Ken	or as	<u>. ۲۰۵۵ / ۲ ۶</u>	wassi iniri.
	P	HARMA	,			产品的企业的	تدخنط	ورازي	811-A	24	<u> </u>	~ 34l	4000 S	1. Socks O	J 600 # 15.75 C.
N Rag #			Nec 8a				Noted	1. Sun	, ,	150	فميرد	Elm.	ea F	Lo clus	Pour EM
Log# Tupe#			Red Tar		 		M	K _	1	riji. C		, ,		X	Jr /
							(בב זיט	· · Day	4	QΩ	<u> </u>	D. (4113)	7	1.16, 41/1 6	المرجوبية.
ES-100 (9/0	3)			While -	- Agero	у Сапад	- Receiva	ng Facilii	y	Pini	k'i Pha	mecy	سرنه سدر	المستستنته بزيمية	J. J.
	• 1	<i>P</i> 5	٠,٠	. h	. i.	•					<i>y</i> 2	11. C	Ax	Charles !	

Certificate of Death, Dr. James Banner

D4/3	at snae	11:69	61524387	' 8 5	•	STEGENGAFI	UNERAL			PAG	E 63	\$
TYPETRINT					建 等	STATE OF M						
PPAMATENT BLACK INK	LF _				100	RIMENT OF CO			_	STATEF		
·	·			; ° ° ;		ERTIFICATE			 	235	06	56
		2017ANTAIN	Chen MAS LAN		•	1,7DA-14,10	بار نینیه از تعز در نینیه از تعز	Fema	_ 100	Red		d
blesbild	SHAME	A CHILD HANG	THE NAME USED IC	A LEGISONYT	DUST CE COLOR SELECT	Bury:	105 (m) 1166 55	MONTH	ur) o	AVE 143	U-401-A-1	DAY MINUTES
_		n en en	and the second	Kanada da da da	1:02 % Zan	1250		OR TOWNSHIP O	P DEATH	יואניטטארי	COLDEO	en e
	120313	TATE) LEGI (BE	eduction of the	C N IN M IN		I zpravinci			•	Moneo		
	C CARL	ut haddisc	er collegen	-	EL LOCALITY IN	AL MI YOU APPRATE BY BE	ratue/	AL STREET AN		E punjung yipu, Am	N. market	4 -,
	Mich	າ can	Montes	l m	S. Carrier	1	เราะเกา					
ą.	ve. De co		1. BIRTIPLACE KIN	ندم ب مبلایت	4	(0.	DCIAL SICUR	Tre terrories.	lotte a pr	of at about the		PATERIES.
DECENTARY Physician or institution			1	≀edac		4						
ENT F	II, NACE	i jepenti i Letin Popum, prop	ر عوبير <u>كورث بدن ها</u> سعي د همانس بدن اوسد بنج بند	rt feltige) "Alme ouel meigeli	- thing in and	policy Nove Ace Allem Macrosco belling you con	ing the Proves Dr. Provinciani prov	1 .~	ورة عد ه	KON IN WAS		ED SOKCOS
DECEDENT physican or		*						No				
* 3°	IZ, AZDVÍ	OCTUMENT	ا رازن گفتا به و مداو به است. در معاوی ساز میما ۱۹۹۹ به ۱۹۹۸ در معاون ۲۰۹۸ به ۱۹۹۸ ب	H. KADO	muziezani mora	Sire Ma	STAL STATUS.	HAME	aci	COM SOUTHER A	Kirde Jine	tree- elgen
MANIEC For 1926	IDE FATHER	THAT	The last	6 3 3 3	Section of Control	JO. MOTHER'S HOM	S DEPORT TIES					
PARKEYES						400				·····		
INFORMANT	1 1 1 1 1 1 1	WATTA	Property and	1:	IL RELATIONSHIP TO DEPENDENT SON	THE WAILDRY ADD					ir tau	
	an with	D DI DISTOR	uen ile efreit		TROP men a control of			TA LOCAL		n Wage,Sur		
alsrobration	Crem	Fign .	and a	Re	dacted			486	Re	edacte	d	
BISLOSHION	Si SCHAI		UARY SCHOOL UCE	3EE. 15	TICEMS MANDER	ि व ार्यकाः अधिकान						
	Luct	B. Ste	eenga/		6723			dacted	10 (A) (A) (A)	JAC TIME	- LO-L-	N770
	O Coming	in the last	new new person had been	فالمناع معتدمناة ف	Me IN and Descript over	THE OF DEATH THE OF DEATH THE OF DEATH	T THE	Redact		DEVE		n H
	XI MANUAL	i Bearlact - In	PARTITUDE TO A SECOND	<u></u>	HL SINCE A princh, Walnu, Calely	29 MEDICAL EXAMPA CONTACTED ING PAIN	PA PLACE	DF-DEATH slow, c, teque, amount	ff-regrat,	21. (F NUMPT) Sampley	AL Profe	
ÇĞRTINÇATINE		Elcites on o		UCUSE KUS		Yes.	Re	MAN OF AT				
		edacte	3 d	510101		FEMBER #	łų.	CHATIFIER O	in ección	gram, me iç i	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	M MANE.	220ADDA GYA	OF CERTIFYING PHY	SICINAL NEW W	Listed Comments							
		S D. BE		406	B. Blm Stre	et. Carson		rito	Veri			
	<u></u>											
	IN MARK	مستأزنية تعبوه	Albert spiritet lyt the	hyp. Concod	y ans taxes us a life.	erdik erni. DO MAT e	Ain terminal aces	es with to lattice a	eric empiral	NÃ NACHÉ		Heriege Heriegen Mr førder
	The felan	de applications to the property of the propert	. Cardiac	RUPEUM							Mir	utes
10.28/JA7 HTA16	AMMERICATE I	he wy were. Salett lenet		OL RIC	tht Ventric	le by Infor	<u>ior ven</u>	a Cova P	aced	<u>Filcer</u>	Day	<u>/s</u>
	Anterestable to Substitute to the		·							1		
	LIGHT	TALLED CONTROL	INC 17 (M	-) = (*H4);	HERMIC ENT				•	1		
	- Atalat (2)	i ngsu skieljist majon	***************************************			····	17 DIQ 1097 CONTRA	ACCOUNT.	IK II FEM	ماراق		
	PANT F AT	ILF SPANSON	مناها يمددك ويي فيسا ديدوي ك	e nu quan pur	terd acousting 14 thy under	hink asom feetisch güs ş	Dim.	O seems of		ng mag na strap ngsa kapana disar m	.ie	
	In Availa	OF DEATH .	Accinian bytogra Manija	uj.	es wie is abilen	y an waste strong		Walaki f	1	1- ,	70 K C.	dire in such
[,78414	ciental	Pending Houses		Yes	Torrespond	Pt 3-m	Talker 19	i. Peber.	si Giotram ingle grad mar ye saskelili		
Ì	ALL DESIGNATION OF	130000	ign. Hour	312021	AL DESCRIBERANCE	COMPLEASE PRINCIPAL						
MEDICAL	סמגמט		Unkno	wa ⊌	Inferior '	rena Cáva F.	ilter Pi	laced for	יי ביים	s Dislo	oge o	
STOCKED VER	Itd. (VALE)		process with the same of the s	114 20 20	THE REAL PROPERTY OF THE PARTY	0.5	****		. belley at le	ņ.	Şa <u>ş</u> ı.	
	No		Rome	P = 1/1	Providella ' Linguista' a	V Mary			e to equ		MI	
AN Albert Day						······································						

Patient Comparison Matrix

Complaint No.	Special Access Program Patient # 9	Special Access Program Patient # 46	6163130026	610317000s	3104320073	6164520650	62702
Account							
Date of Event				Redacted			
Date Event Reported to Bard	B/22/2000	3/75/2003	10/17/2003	12/1/2003	2/9/2004	2/24/2004	4/14/7004
Dato MDR Submitted	Prior to \$10(s)	Prior to \$10(k)	11/14/2003	12/22/2023	3/9/2004	3/18/2004	Hipsorial 4/13/2004 Bersta due 5/13/2004
Lot No.	unot	UNK	Unconfirmed-07/DN3645 or 07/DN3651	UNK	97(902%	07JN2626	97LAG937, 37 (sect in Lot
Sample returned	No.	Na	i NO	Yes	Yes	Na Na	Untersown as of 42 92004
Fitter indication	UNK	Pro-Laparolomy / Hystericiticity	PE	Massive Retrepertureal Bleed Born anticongulation Anticoogulant had to be proposed	Pre-Languages General Bypess Surpory	DVT in togs	bvī
Other Pt. History	UNK	Large Uterne Fibrori	Unk	Left DVT, Multiple PE	Momes Obesity, Obstructive See; Apnea, Athirl Forderon, SVT, Hypertension Cardiomegaly	Pest spinal surpery. Decemprossion at emissi drice.	Sub aractivoid henoraça
PL Ago AT Time of Event	UNK	45	LINK	50	34	51	55
Bex	M	F	L L	M	l w	M.	F
WLADS	UHK	UNK	1 UNK	UNK	\$30	UHK	E0 No
Normal Placement?	LINK	No. Legs Wisied	unk	See "Cava Size" Change Below	Yes	No. Filter Stood 60 degrees, Legs historic Doctor unsuccessibly attempted to unividal them with 8 Cobre cacheler.) ver
Post implant Symptoms	Asymptomatic	Asymonian	Chest Pains	\$06, Lightwated	Patent "passed bull and codes after a BM	Asymptowakic	Norm of Nicord
Disgnostic Integing	Frantal and lateral digital subtraction imaging	Abcominal X-ray, one day post implant	Cī	CT	CT Verse-Granu		Pro Cora Grain, Post Firm
ays to Hovement Documented	16	1	13	13	0	Day of implant, during the procedure	13
Moved to?	T-11-7-12 trac boace, one leg at level of remai year	Cranist migration to 3-12, one day post impair. First stars approx. 5 daynes to pits. left, and approx. 10 degrees asseriorly.	4cm copharad to above the Renals	rvC/Right Athal Juration	Right Atrium	In oppliantment on day of emphasis. During an adempt to retrieve it with a source on day it post- stratest, showed the Einer to right yearside.	Right verticie, per Dr. Berner, fit "Exphined the verticals"
Cora Site	UNK	Utok	UNIC	12mm at explaint (hypovolomic), 2emm alter rand had replacement	Verbally reconnect to the "just below 24/201" by Dr. Fransa	UAN	Appropriately Street per Section 1 Shring an large of autopey per Dr. Sw
Clot	"Large amount of thembus within the Bigs"	"His information scoon in the diser".	"Large Clot in Filler post implem"	"Large enement of sich in the putmorary attacks, right strum, NC, and possessy the name veins" Large stat seen within the filter,	1, x e, closwork the psox	Not reported	Per Dr. Barmon's waute observation, was formed antendaten. Ho histolo has been done on stot.
Patrent Oulcome	Teloratod romoviž wal, witnasi doveloping any chical er stotlaminal pairi	Commental removals of Revovery Files, Successful placement of Tutip Rest. The patient dath dat experience any acuss complication.	ок	"Suggest Threnbo-encoleromy of the NYC, right struct, bestered pulmonary printies. Post-op comme commissionics. Pro comme commissionics. Processure toterated week."	Depth	Unancessatul ettempe so retidore ene fisar from the right ginum by enoties intervencenal Recologist, Patent & schooling for surgery wheek of	Cittle detected by the second
First Removed	Fêtel name/ved per sequent of patient on cay 16	Filter-was removed, with defaulty, I day post impaint. "Filter was not fee Bearing". Tuto Filter placed bysuch the same jugustr access used for the Recovery that removed. Tutle placed of LI-L2 interproper.	Sitt implanted its of the second	Filter removed under CP byptsa. Subsequently, a new filter was placed by a Restologist who complications.	Files removed at Autophy	Scheduled for surgery week of	Film removed of Autopsy
Films	Not submitted to BPV	Not submitted to BPV	C IAvenagram (CC), Kautman	Not Retended by Hospital	AI BPV	Vena-grams in BPV 3/2	Digital images of films were taken by Hadrait

Investigation Summary, Douglas Uelmen



Investigation Summary SPA 04-04-02 April 21, 2004

1. Patient Information.

- The patient was a 55 year old female weighing approximately 80kg.
- Admitted to Redacted in Redacted on Redacte
 for treatment of subarachnoid bleeding.
- Deep vein thrombosis (DVT) was discovered while at Redacted
- The patient was not a candidate for anti-coagulation therapy.
- A Recovery Filter (Catalog Number, RF048F, Lot Number 07LN2037)
 was placed on Reducted
- The Patient was released from Redacted on Redacted
- The patient was found by a Montcalm County EMT unit on Redact
 The patient was DOA in bed.

2. Post Mortem Information.

- A copy of the death certificate was provided by the Medical Examiner, Dr. Banner. The autopsy was performed by Dr. Banner at Carson City Hospital in Carson City, Michigan.
- "The cause of death is Cardiac Rupture." "A puncture to the right ventricle by an inferior vena cava placed filter" (see Death Certificate).
- The description of the occurrence is: "Inferior vena cava filter placed for DVT dislodged by thrombus and migrated to the heart" (see Death Certificate).
- During the meeting on 4/19/04 with Dr. Banner, he stated;
 - The size of the clot at the time of the autopsy was approximately 3 cm in diameter by 5 cm in length.
 - > The size of the vena cava at the time of the autopsy was approximately 3.0 to 3.5 cm in diameter.
 - In his professional opinion, the clot was antemortem.
 - Small pulmonary emboli were found in the lungs. The PE was not measured.
 - > The exterior surfaces of the filter were unremarkable (appeared normal). Interior surfaces were not evaluated.
- Digital photographs were taken of the specimen by a Bard group (J. Hudnall, R. Carr and D. Uelmen) on April 19, 2004. The specimen consists of the recovery vena cava filter with thrombus attached to a portion of the wall of the right ventricle.
- The Bard group with Dr. Banner measured the clot on April 19. The dimensions after the "fixing" was 2.5 cm in diameter by 4.5 cm in length.
- X-rays of the sample were taken to assess the status of the recovery filter embedded inside of the clot. Samples were taken from three planes.

Confidentiality Notice: This message contains information that may be confidential and privileged. If you have received this in error, and are not the intended recipient, you may not use, copy or disclose to anyone the message or any information contained in the message.



- The x-rays show the filter to be intact. All "arms" and "legs" were attached. All hooks were present and properly formed.
- Dr. Banner indicated that the final autopsy report would be available during the week of May 4 (approximately 3 weeks after the completion of the autopsy.
- Dr. Banner provided the contact information for the county clerk. We will obtain a copy when it becomes available.
- The sample will be available for further pathological evaluation at the discretion of the deceased's family.
- 3. Information from the Interventional Radiologist, Although Redacte placed the filter, he was unavailable during our visit to Redacted on April 19. We discussed the case with the Chief of the Interventional Radiology Department, Dr. Redacted had the vena cava grams and films available for our review.
 - Although a formal measurement of the vena cava was not taken at the time
 of deployment a measuring catheter was seen in the vena cava. The
 marker bands of the catheter were at 2 cm increments. The physician
 determined the vena cava to be appropriately sized. There were no copies
 of the films available. Digital photographs were taken of the films on the
 light box.
 - The post deployment films show the filter to be placed as intended. A
 post deployment vena cava gram was not performed.
 - All of the "arms' and "legs" deployed properly. The lack of a post deployment vena cava gram made it difficult to determine if the legs were properly engaged.
- 4. The Division PAT reviewed the Recovery Vena Cava Filter MDR data vs. MDR data for competitive Vena Cava Filters. The Recovery Filter was compared to the Simon Nitinol Filter (Bard), the Vena Tech Filter (Braun), the Greenfield Filter (Boston Scientific), the Birds Nest Filter (Cook), the Gunther Tulip (Cook), the TrapEase Filter (Cordis), the OptEase Filter (Cordis). MDR information was obtained from the Maude data base. Sales information for competitors products was obtained from IMS data. Comparisons were made for the following categories:
 - Fatality Rate as a percentage of units sold.
 - Complication Rate (MDR) as a percentage of units sold.
 - Migration Rate as a percentage of units sold.
 - Fatal Migration Rate as a percentage of units sold.
 - Fatal migration as a percentage of total migration.
- 5. The Division PAT has completed the following activities in support of this investigation:

Confidentiality Notice: This message contains information that may be confidential and privileged. If you have received this in error, and are not the intended recipient, you may not use, copy or disclose to anyone the message or any information contained in the message.

Page 2 of 3



- The definition of Massive Thrombus is thrombus of sufficient size to
 cause the internal diameter of the inferior vena cava to distend beyond the
 maximum size indicated for the vena cava filter in the Instruction for Use.
- The Division PAT was challenged to determine whether or not a filter without a
 recoverable indication could have resisted migration under the clot burden
 identified in this investigation.
 - A review of the Maude Data Base shows that all Vena Cava Filters (with the exception of the SNF) are subject to migration and are associated with deaths due to thromboemboli. Fatal migrations are found with; Birds Nest, Recovery Filter, Vena Tech and TrapEase.
 - A report retrieved from the Maude database concerning a Cordis TrapEase filter properly placed in 2003 is very similar to this incident. Post procedure the patient experienced shortness of breath, respiratory distress, and went into cardiac arrest however was resuscitated but did not survive. A post mortem was completed and it showed that the filter had migrated between the right atrium and right ventricle. The cause of the migration was reported to be a large embolic load with resulting increase in venous pressure that lead to inferior vena cava dilatation (greater that 30 mm) resulting in a release of the filter hooks and subsequent migration.

This TrapEase filter is indicated for permanent use only. The conditions surrounding this migration are nearly identical to the issue under investigation. The Division PAT believes that based on this information that a clot of the size under investigation would have resulted in a condition similar to that stated in the above mentioned TrapEase investigation (reference MDR Text Key:1747578) resulting in migration and death.

Confidentiality Notice: This message contains information that may be confidential and privileged. If you have received this is error, and are not the intended recipient, you may not use, copy or disclose to anyone the message or any information contained in the message.

Page 3 of 3

Photographs,



BPV-17-01-00153609

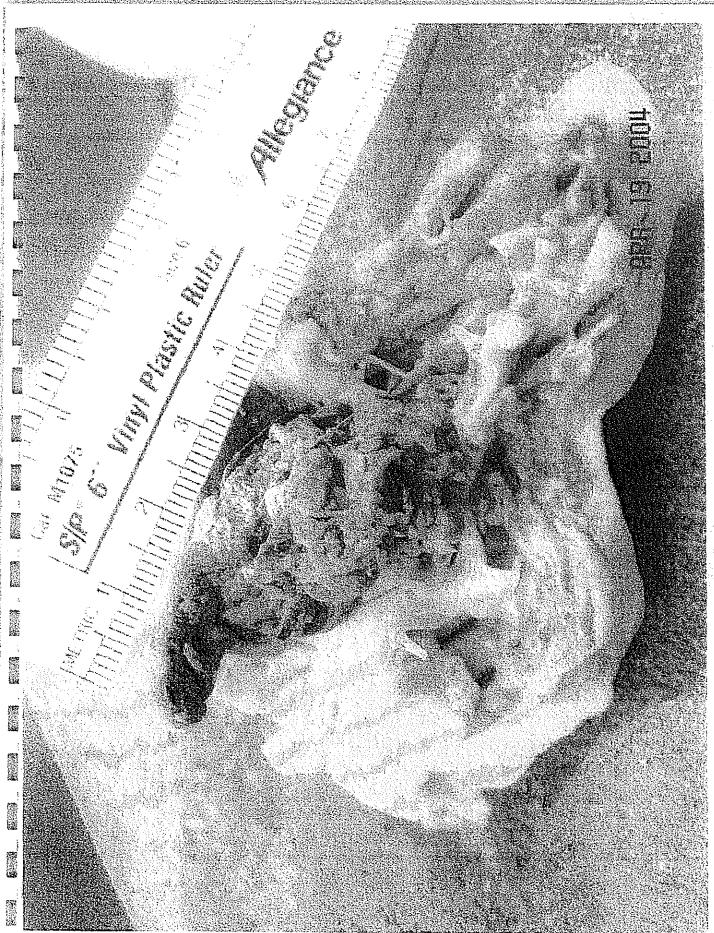


LMD1



CONFIDENTIAL - SUBJECT TO PROTECTIVE ORDER

BPV-17-01-00153611 LMD1

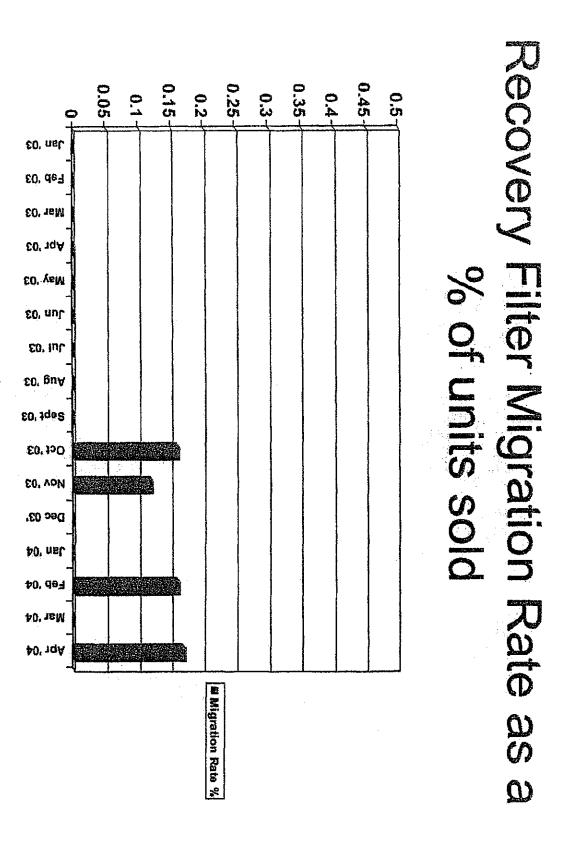


CONFIDENTIAL - SUBJECT TO PROTECTIVE ORDER



BPV-17-01-00153613 LMD1

Recovery Filter Migration History Graph



MAUDE Database Summary & Graphs

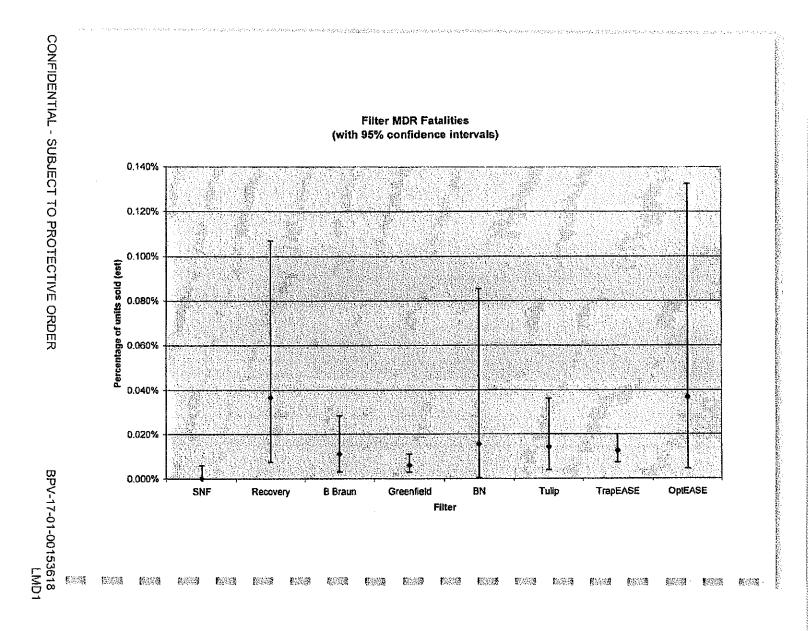
FILTER SALES

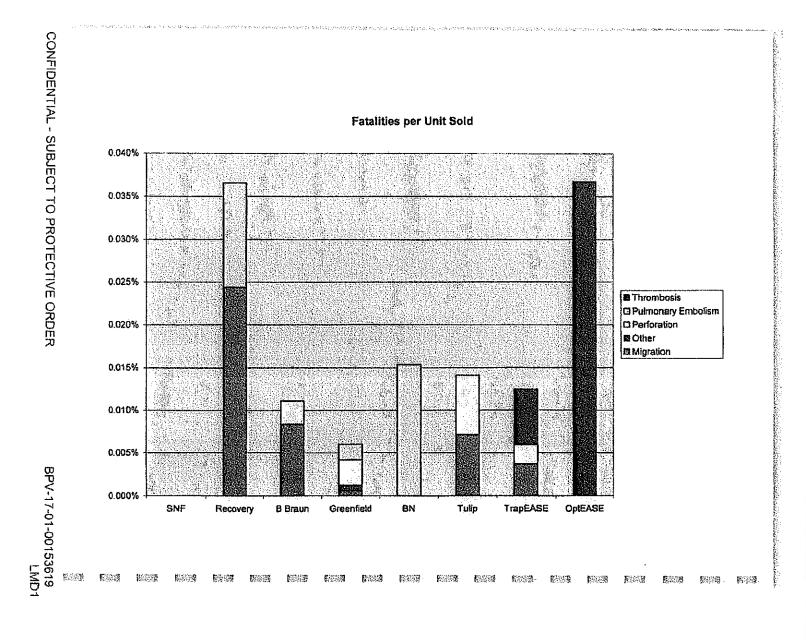
SNF	62346 Actual (01/00 to 04/04)
Recovery	8202 Actual (01/00 to 04/04)
Vena Tech	36031 IM5+ LR (01/00-Q1/04)*
Greenfield	167702 IMS+ LR (01/00-Q1/04)*
Bird's Nest	6517 IMS+ LR (01/00-Q1/04)*
Tulip	28348 IMS+ LR (01/00-Q1/04)*
TrapEase	136315 IMS+ LR (01/00-Q1/04)*
OptEase	5448 IMS+ LR (01/00-Q1/04)*

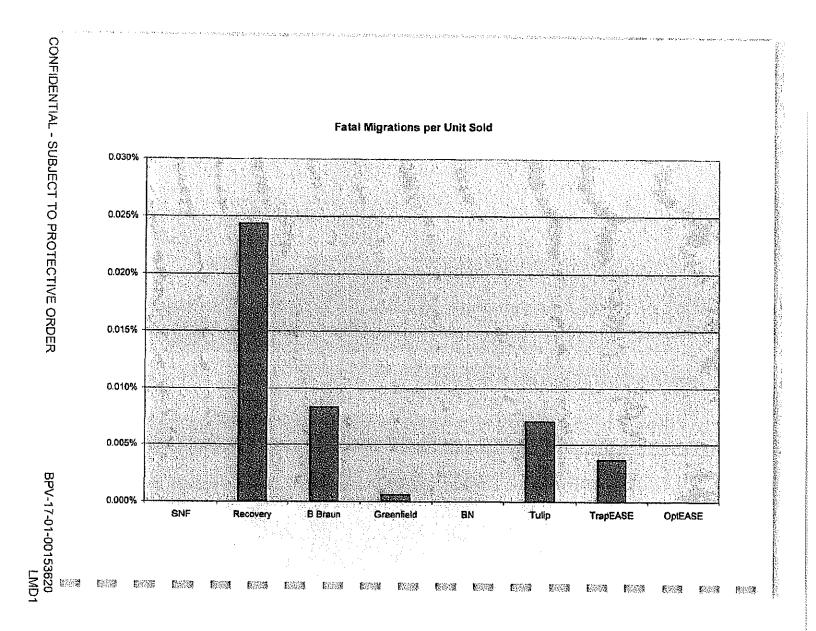
MAUDE DATA AS OF Q1 2004*

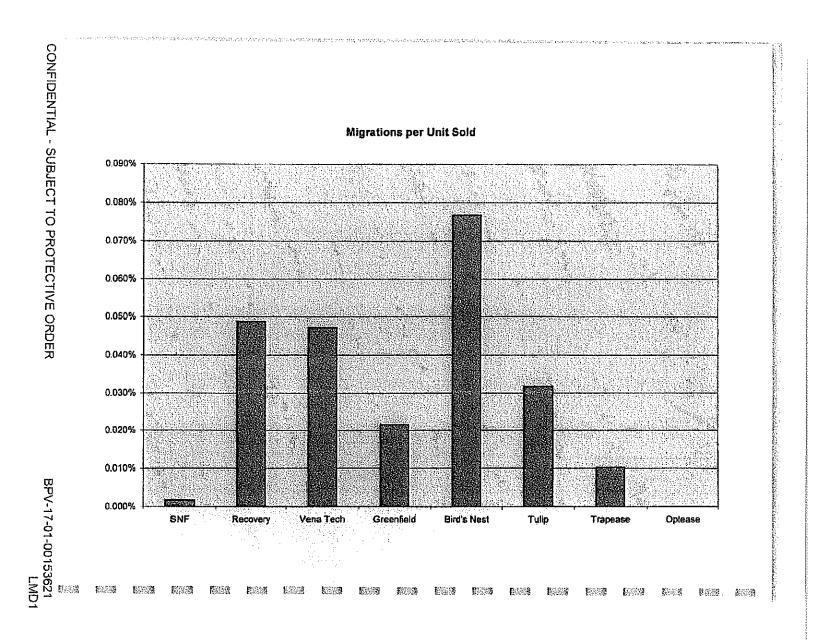
	Fatalities	Migration	Caval Perforation	Gaval Thrombosis
SNF	0	1941 3 4044	6	August 0 (Agent)
Recovery	3.4	4 640	Ölekkerini	0.1
Vena Tech	1 34 5 4	17	0	Assistant Organization
Greenfield	10	36	7	0
Bird's Nest		5	7	0
Tullp		9	4	0
Trapease	17	14	11	51
Optease	2	0	0	1.00

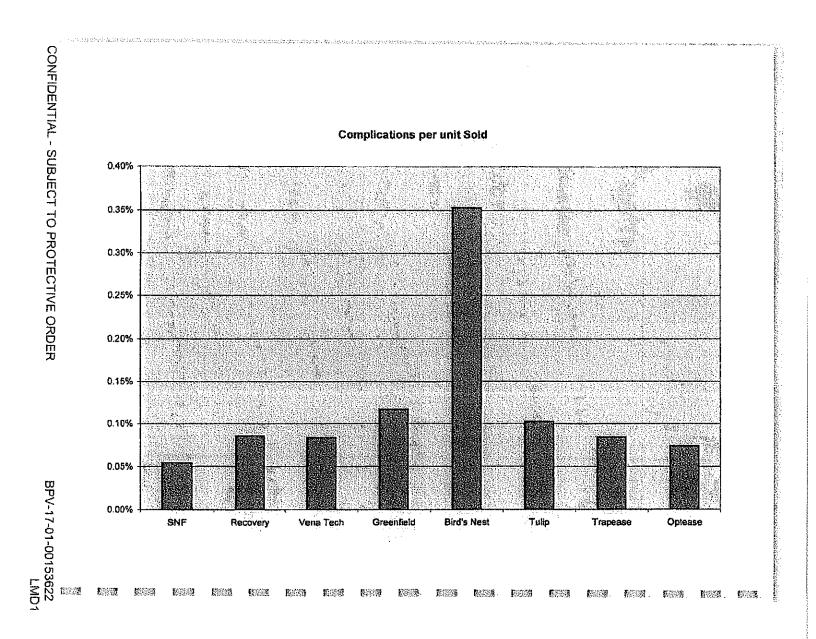
	Fatalities	Migration	Gaval Perforation	Caval Thrombosis
SNF		0,002%	0/008%	
Recovery	0.037%	0.049%		斯特特的教授
Vena Tech	0.011%	0.047%		
Greenfield	0.006%	0.021%	0.004%	
Bird's Nest	0.016%	0.077%	0,107%	医铁马斯 医海岸炎
Tulip	0:014%	0.032%	0.014%	的基础的特征设计
Trapease	0.012%	0.010%	0.008%	0.037%
Optease	Oi037%	er german in der ge		0.018%

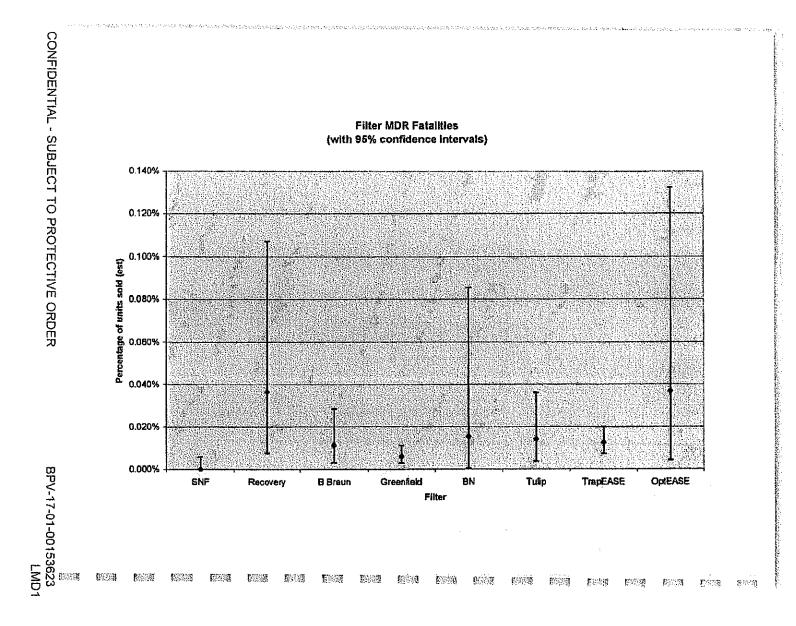












Confidence intervals of proportions

Num Den 3

DOM

8202

LCB
"Exact" 0.007544%
Wilson 0.012440%

Proportion 0.036576% 0.036576%

UCB 0.106854% 0.107492%

Removal of QC Hotd, Chris Ganser

Page 1 of 1

Uelmen, Doug

From: Ganser, Christopher

Sent: Saturday, April 24, 2004 12:58 PM

To: Uelmen, Doug

Cc: Barry, Brian; Cherry, Joe; Passero, Donna; Palermo, Pete; Ganser, Christopher

Subject: Health Hazard Evaluation (HHE)- Recovery Filter

Per phone discussion with Dr. John Lehmann MD today at 11:30 am, the HHE for the remedial action plan involving the Recovery Filter second patient death will not differ from the HHE provided with the first Recovery Filter remedial action plan involving a patient death. Dr. Lehmann stated that in his reveiw of the data involving IVC filter related deaths, the evidence to date does not suggest that these types of events are occurring with excess frequency with the Bard Recovery IVC. A formal HHE will be provided and the remedial action plan must be completed per the requirements of Corp. RA Policy R-002

With this information provided directly to me, I authorize you to remove the current internal QC HOLD for the Bard Recovery Nitinol Filter.

Christopher Ganser Vice President, Regulatory Sciences

Health Hazard Evaluation, Dr. John Lehmann dhuann MD

Lehmann Thomas, LLC

Memo

To: Doug Uelmen, BPV

From: John Lehmann, MD

Cc: Brian Barry, Corporate

Paul Kowalczyk, Corporate Chris Ganser, Corporate

Date: April 27, 2004

Re: Recovery Filter Migration HHE

Doug, here's the completed Health Hazard Evaluation.

Renards

Confidential

Confidential

Summary of Health Hazard Evaluation: A case of vena cava filter migration associated with patient death was reported after the successful implantation of a Bard Recovery® Nitinol Vena Cava Filter. Evaluation demonstrated an intact filter and a large thromboembolus, with clot and filter lodging in the right ventricle resulting in cardiac perforation and tamponade.

Conclusion: Vena cava filter migrations are a recognized and accepted complication of this type of therapy. Such complications may be serious and can occasionally be fatal. The evidence to date does not demonstrate that these types of events are occurring with excess frequency with the Bard Recovery® Nitinol Vena Cava Filter.

Description of the problem: A complaint in April, 2004 regarding a Bard Recovery® Nitinol Vena Cava Filter (Recovery VC Filter) migration associated with a patient death led to a review of the potential health hazard associated with such occurrences.

Actual occurrence of injuries: The complaint involved a 55 year old female patient admitted to the hospital in **Redacte** with subarrachnoid hemorrhage, who was found to have DVT during her hospitalization. Because of her recent intracranial hemorrhage, she was not a candidate for anticoagulation, and a Recovery VC Filter was placed on in an approximately 25 mm diameter vena cava. The Recovery VC Filter was deployed approximately 1 cm below the lower renal vein, with normal placement found on post procedural vena cavagrams. The patient was discharged from the hospital on to home; and was found dead in bed on

Post mortem examination determined that the cause of death was cardiac rupture, with puncture of the right ventricle by inferior vena cava filter. The death certificate is said to describe an "inferior vena cava filter placed for DVT's dislodged by thrombus and migrated to the heart."

Inspection of the thrombus / filter mass on 4/19/04 revealed dimensions of 2.5 cm in diameter and 4.5 cm in length (which was slightly smaller than the dimensions noted immediately post mortem). The thrombus / filter mass was attached to the right ventricular wall. X-rays confirmed that all filter arms, legs and hooks were present, even though some of the hooks and legs were contained within the thrombus. The thrombus was determined to be ante mortem. The vena cava was estimated to have an internal diameter of 30-35 mm, but was otherwise unremarkable. Small pulmonary emboli were found in the lungs.

Lehmann Thomas, LLC

Confidential

Confidential

Human exposure to the problem: Embolism of vena cava filters is a generic and well recognized risk of this technology. Events have been reported in the medical literature since the early 1980s as well as in the MAUDE database; these reports include migrations to the heart and include fatal outcomes.

Male and female patients at risk of pulmonary embolism who are either unable to take anticoagulants, are anticoagulant failures, or who are at unusually high risk are generally indicated for the use of vena cava filters in general and the Recovery VC Filter in specific.

General consequences: Migration of vena cava filters can have minimal consequences in some patients. In others it results in damage to the vena cava or obstruction of the renal veins. If the device and associated thrombus migrates into the heart this can lead to direct impairment of cardiac function including valvular dysfunction, reduced cardiac output, perforation with tamponade, circulatory collapse and death.

Other recognized causes of mortality associated with vena cava filters are vena caval obstruction, vena caval perforation with damage to adjacent structures, and filter failure resulting in release of thrombus leading to pulmonary embolism.

Population exposed to risk: Generally adult patients with a high risk for pulmonary embolic disease.

Mitigating/predisposing factors in population at risk: Mitigating factors include the close medical attention such patients generally receive. Predisposing factors in this population include coagulation abnormalities, obesity, sleep apnea syndrome, perioperative condition, congestive heart failure, cardiac arrhythmia, prolonged immobility and anticoagulant intolerance / failure.

Nature and seriousness of the risk: The nature of the risk ranges from minimal (asymptomatic migration without sequelae) to catastrophic (acute circulatory impairment from pulmonary or cardiac embolization with clot, filter or both). The latter risk is serious and potentially fatal.

Likelihood of occurrence of problem: Considering the problem to be vena cava filter migration into or near to the heart, there have been 4 such migrations of the Recovery VC Filter, with two fatalities, in an estimated 8,200 sales through mid-April, 2004, for a rate of 0.05%. One instance was a deployment error, and the other three occurred after apparently normal deployments on Days 6, 13 and 14.

Considering the problem to be death in association with vena cava filter use (resulting from one of the four major known complications: migration, caval obstruction, caval perforation and pulmonary embolus / acute respiratory distress), there have been 3 deaths associated with the Recovery VC Filter, 2 from filter migration related to large thromboembolic load and one from a pulmonary embolus, for a rate of 0.037%.

Lehmann Thomas, LLC

Confidential

Confidential

These types of adverse events occur with all known types of vena cava filters, and are extensively reported in the medical literature. Comparative attempts to assess similar events via the MAUDE database do not yield reliable quantitative estimates for a number of reasons:

- · Potential under-reporting
- Inadequate description of events in the MAUDE database, resulting in potential misclassification
- Very low frequency of observed events
- · Sales data can only be roughly estimated
- · High variability in event rates across devices and across time periods

However, it is clear that since the MAUDE database has been kept, numerous instances of vena cava filters migrating to the heart with both fatal and nonfatal outcomes have been reported, as well as fatalities from the other known complications associated with the implantation of such devices.

Likelihood of harm if problem occurs: The likelihood of harm if the Recovery VC Filter migrates to or near the heart is significant, but unquantifiable.

Is product essential to health?: Yes, vena cava filters are essential to health for the indicated patients, who may have no other alternative to prevent pulmonary embolism.

Is an alternative available?: Partially. Other manufacturers currently sell approved vena cava filters without a claim of recoverability, and there are also other medical and surgical options for some of these patients. However, there is only one other vena cava filter on the market with a claim of recoverability; this device has a similarly short marketing history to that of Recovery, no published clinical data, and an animal study that suggests incorporation of the struts into the caval wall after several weeks. Thus, the Recovery VC Filter may have unique advantages for certain patients.

Must the problem be corrected surgically?: Migration of vena cava filters to the heart is rarely managed conservatively, and treatment almost always requires either a percutaneous or open surgical correction.

Is the problem expected and within an acceptable statistical range?: Migration of vena cava filters, both within the vena cava and up to and into the heart are recognized complications of these devices. Acceptable statistical ranges cannot be reliably computed from available data, especially since many migrations without serious sequelae are not reported. Death associated with vena cava filter use, while a cruder measure, is probably subject to less under-reporting. Consideration of various estimates using this outcome measure do not demonstrate that these types of events are occurring with excess frequency with the Bard Recovery® Nitinol Vena Cava Filter. Such estimates are difficult to make reliably given the multiple data deficiencies noted above, and continued monitoring of event rates is warranted as further experience with the device is gained.

Can the problem be field corrected? In most of the serious or fatal complications involving vena cava filters (migration, caval perforation, caval occlusion and filter failure

Lehmann Thomas, LLC

Confidential

Confidential

with PE and / or acute respiratory failure) the device appears to be functioning normally up to the time of failure. Migration and filter failure generally occur when an otherwise normal filter is overwhelmed by aggregated large thrombus burdens. There is no device problem to be field corrected in this instance, just a recognized complication of vena cava filters.

Is it obvious to the user?: Migration of vena cava filters can be asymptomatic, but when they migrate to the heart this is clinically evident.

Can the product continue to be used with proper warnings?: Yes, the product can continue to be used with current warnings, which indicate the possibility of filter migration.

Is the device used only by specially trained health care professionals?: Yes, the device is only used by interventional radiologists and occasionally by other equally skilled interventionalists.

Lehmann Thomas, LLC

Confidential

Confidential

References:

- 1. Akins, C.W., et al., A misplaced caval filter: its removal from the heart without cardiopulmonary bypass. Arch Surg, 1980. 115(9): p. 1133.
- 2. al Zahrani, H.A., Bird's nest inferior vena caval filter migration into the duodenum: a rare cause of upper gastrointestinal bleeding. J Endovasc Surg, 1995. 2(4): p. 372-5.
- 3. Alam, M. and T.B. Levine, Echocardiographic features of embolized inferior venacaval filter to the right ventricle--a case report. Angiology, 1993. 44(4): p. 338-40.
- Angeli, E., et al., [Perforation of the vena cava with aortic penetration by a Greenfield filter: diagnostic ability of ultrasonography]. Radiol Med (Torino), 1990. 80(6): p. 929-31.
- 5. Appleberg, M. and J.A. Crozier, Duodenal penetration by a Greenfield caval filter. Aust N Z. J Surg, 1991. 61(12): p. 957-60.
- 6. Arjomand, H., S. Surabhi, and N.M. Wolf, Right ventricular foreign body: percutaneous transvenous retrieval of a Greenfield filter from the right ventricle--a case report. Angiology, 2003. 54(1): p. 109-13.
- 7. Ascer, E., et al., Superior vena caval Greenfield filters: indications, techniques, and results. J Vasc Surg, 1996. 23(3): p. 498-503.
- 8. Asch, M.R., Initial experience in humans with a new retrievable inferior vena cava filter. Radiology, 2002. 225(3): p. 835-44.
- 9. Babuty, D., et al., [Partial interruption of the inferior vena cava using a percutaneous endovenous filter]. Arch Mal Coeur Vaiss, 1990. 83(9): p. 1389-96.
- Balshi, J.D., N.L. Cantelmo, and J.O. Menzoian, Complications of caval interruption by Greenfield filter in quadriplegics. J Vasc Surg, 1989. 9(4): p. 558-62.
- 11. Becker, C.D., et al., Long-term follow-up of the Gunther basket inferior vena cava filter: does mechanical instability cause complications? Cardiovasc Intervent Radiol, 1994. 17(5): p. 247-51.
- 12. Becker, D.M., J.T. Philbrick, and J.B. Selby, Inferior vena cava filters. Indications, safety, effectiveness. Arch Intern Med, 1992. 152(10): p. 1985-94.
- 13. Berland, L.L., F.E. Maddison, and V.M. Bernhard, Radiologic follow-up of vena cava filter devices. AJR Am J Roentgenol, 1980, 134(5): p. 1047-52.
- 14. Bochenek, K.M., J.E. Aruny, and M.G. Tal, Right atrial migration and percutaneous retrieval of a Gunther Tultp inferior vena cava filter. J Vasc Interv Radiol, 2003. 14(9 Pt 1): p. 1207-9.
- 15. Bovyn, G., et al., [Value of a long duration temporary caval filter in critical thrombo-embolic situations]. Ann Fr Anesth Reanim, 2003, 22(9): p. 809-14.
- 16. Brountzos, E.N., et al., A new optional vena cava filter: retrieval at 12 weeks in an animal model. J Vasc Interv Radiol, 2003. 14(6): p. 763-72.
- 17. Brown, D.B., et al., Determination of inferior vena cava diameter in the angiography suite: comparison of three common methods. I Vasc Interv Radiol, 1999. 10(2 Pt 1): p. 143-7.

Lehmann Thomas, LLC

Confidential

Confidential

- 18. Bruckheimer, E., et al., In vitro evaluation of a retrievable low-profile nitinol vena cava filter. J Vasc Interv Radiol, 2003. 14(4): p. 469-74.
- 19. Bull, P.G., H. Mendel, and A. Schlegl, Gunther vena caval filter: clinical appraisal. J Vasc Interv Radiol, 1992. 3(2): p. 395-9.
- 20. Burke, P.E., et al., Experimental comparison of percutaneous vena caval devices: titanium Greenfield filter versus bird's nest filter. J Vasc Surg, 1987, 6(1): p. 66-70.
- 21. Cahn, M.D., et al., Long-term follow-up of Greenfield inferior vena cava filter placement in children. J Vasc Surg, 2001, 34(5): p. 820-5.
- 22. Castaneda, F., et al., Migration of a Kimray-Greenfield filter to the right ventricle. Radiology, 1983. 149(3): p. 690.
- 23. Castellani, L., et al., Transvenous interruption of the inferior vena cava. New model of vena cava filter. Preliminary results in 35 cases. Int Angiol, 1987. 6(3): p. 299-306.
- 24. Castellani, L., et al., [Partial interruption of the inferior vena cava using the 2612 filter. Apropos of 35 patients]. J Mal Vasc, 1987. 12(1): p. 64-9.
- 25. Chavan, A., et al., The Filcard temporary, removable vena cava filter: use in local thrombolytic therapy. Z Kardiol, 1993, 82 Suppl 2: p. 191-3.
- Chintalapudi, U.B., O.H. Gutierrez, and M.V. Azodo, Greenfield filter caval
 perforation causing an aortic mural thrombus and femoral artery occlusion. Cathet
 Cardiovasc Diagn, 1997. 41(1): p. 53-5.
- 27. Cho, K.J., et al., Evaluation of a new percutaneous stainless steel Greenfield filter. J Vasc Interv Radiol, 1997. 8(2): p. 181-7.
- 28. Cimochowski, G.E., et al., Greenfield filter versus Mobin-Uddin umbrella: the continuing quest for the ideal method of vena caval interruption. J Thorac Cardiovasc Surg, 1980. 79(3): p. 358-65.
- 29. Conners, M.S., 3rd, et al., Duplex scan-directed placement of inferior vena cava filters: a five-year institutional experience. J Vasc Surg, 2002. 35(2): p. 286-91.
- Crochet, D., et al., Evaluation of the LGM Vena-Tech infrarenal vena cava filter in an ovine venous thromboembolism model. J Vasc Interv Radiol, 2001. 12(6): p. 739-45.
- 31. Crochet, D., et al., [The new LEM caval filter in the prevention of pulmonary embolism. Preliminary results of a French multicenter study]. J Radiol, 1988. 69(6-7): p. 431-6.
- 32. Crochet, D.P., et al., Vena Tech-LGM filter: long-term results of a prospective study. Radiology, 1993. 188(3): p. 857-60.
- 33. Dabbagh, A., et al., Late complication of a Greenfield filter associating caudal migration and perforation of the abdominal aorta by a ruptured strut. J Vasc Surg, 1995. 22(2): p. 182-7.
- 34. Dagirmanjian, A. and I. Beckman, Late Greenfield filter vena cava perforation causing a small bowel obstruction: case report. Cardiovasc Intervent Radiol, 1990. 13(1): p. 44-6.
- 35. de Gregorio, M.A., et al., Animal experience in the Gunther Tulip retrievable inferior vena cava filter. Cardiovasc Intervent Radiol, 2001. 24(6); p. 413-7.
- 36. Dibie, A., et al., [In vitro evaluation of Dibie-Musset vena caval filter]. Arch Mal Coeur Vaiss, 1994. 87(1): p. 115-22.

Lehmann Thomas, LLC

Confidential

Confidential

- 37. Dupin, N., G. Meyer, and J.L. Diehl, Late total closure and caudal migration of an LGM caval filter. AJR Am J Roentgenol, 1992. 159(6): p. 1349.
- 38. Feezor, R.J., et al., Duodenal perforation with an Inferior vena cava filter: an unusual cause of abdominal pain. J Vasc Surg, 2002. 35(5): p. 1010-2.
- 39. Ferris, E.J., et al., Percutaneous inferior vena caval filters: follow-up of seven designs in 320 patients. Radiology, 1993. 188(3): p. 851-6.
- 40. Firkin, A., et al., Inferior vena cava "birds nest" filters--2 year follow-up. Australas Radiol, 1992. 36(4): p. 286-8.
- 41. Fobbe, F., et al., Gunther vena caval filter: results of long-term follow-up. AJR Am J Roentgenol, 1988. 151(5): p. 1031-4.
- 42. Formanck, A., et al., Three year experience with percutaneous introduction of inferior vena cava filter. Rev Interam Radiol, 1977, 2(3): p. 171-5.
- 43. Frezza, E.E. and S.A. Kagan, Entrapment of a Swan Ganz catheter in an IVC filter requiring caval exploration. A case report. J Cardiovasc Surg (Torino), 1999. 40(6): p. 905-8.
- 44. Friedell, M.L., et al., Migration of a Greenfield filter to the pulmonary artery: a case report. J Vasc Surg, 1986. 3(6): p. 929-31.
- 45. Gelbfish, G.A. and E. Ascer, Intracardiac and intrapulmonary Greenfield filters: a long-term follow-up. J Vasc Surg, 1991. 14(5): p. 614-7.
- 46. Glock, Y. and D. Roux, ["Paradoxical" pulmonary embolism: migration of an inferior vena cava filter. Apropos of two cases]. Ann Chir, 1993, 47(2): p. 157-60.
- 47. Gomez, G.A., B.S. Cutler, and H.B. Wheeler, Transvenous interruption of the inferior vena cava. Surgery, 1983, 93(5): p. 612-9.
- 48. Grassi, C.J. and S.Z. Goldhaber, Interruption of the inferior vena cava for prevention of pulmonary embolism: transvenous filter devices. Herz, 1989, 14(3): p. 182-91.
- 49. Greenfield, L.J., et al., Results of a multicenter study of the modified hook-titanium Greenfield filter. J Vasc Surg, 1991. 14(3): p. 253-7.
- 50. Greenfield, L.J., K.J. Cho, and J.R. Tauscher, Evolution of hook design for fixation of the titanium Greenfield filter. J Vasc Surg, 1990. 12(3): p. 345-53.
- 51. Greenfield, L.J., et al., Greenfield vena caval filter experience: late results in 156 patients. Arch Surg, 1981. 116(11): p. 1451-6.
- 52. Greenfield, L.J. and M.C. Proctor, Suprarenal filter placement. J Vasc Surg, 1998. 28(3): p. 432-8; discussion 438.
- 53. Greenfield, L.J., et al., Clinical experience with the Kim-Ray Greenfield vena caval filter. Ann Surg, 1977. 185(6): p. 692-8.
- 54. Guffi, M., et al., [Prevention of pulmonary embolism with the Gunther filter]. Helv Chir Acta, 1991. 57(5): p. 737-41.
- 55. Guillem, P.G., et al., Duodenocaval fistula: a life-threatening condition of various origins. J Vasc Surg, 2001. 33(3): p. 643-5.
- 56. Gunther, R.W., et al., Vena caval filter to prevent pulmonary embolism: experimental study. Work in progress. Radiology, 1985. 156(2): p. 315-20.
- 57. Haage, P., et al., Prototype percutaneous thrombolytic device: preclinical testing in subacute inferior vena caval thrombosis in a pig model. Radiology, 2001. 220(1): p. 135-41.

Lehmann Thomas, LLC

Confidential

Confidential

- 58. Haiderer, O., et al., [Massive pulmonary embolism: case report of successful embolectomy with transatrial vena cava blockade]. Wien Med Wochenschr, 1983. 133(21): p. 549-52.
- 59. Harries, S.R., I.P. Wells, and C.A. Roobottom, Long-term follow-up of the antheor inferior vena cava filter. Clin Radiol, 1998. 53(5): p. 350-2.
- 60. Hoekstra, A., et al., Vessel wall reaction after vena cava filter placement. Cardiovasc Intervent Radiol, 2002. 25(1): p. 53-6.
- 61. Hoekstra, A., et al., Vena cava filter behavior and endovascular response: an experimental in vivo study. Cardiovasc Intervent Radiol, 2003. 26(3): p. 222-6.
- 62. Hubbard, K.P., J.O. Roehm, Jr., and J.L. Abbruzzese, The Bird's Nest Filter. An alternative to long-term oral anticoagulation in patients with advanced malignancies. Am J Clin Oncol, 1994, 17(2); p. 115-7.
- 63. Imanaka, S., et al., Use of a temporary caval filter in a young man with pulmonary embolism to prevent migration of massive caval thrombus during an attempt of caval thrombolysis. J Atheroscler Thromb, 2000. 6(1): p. 18-21.
- 64. Irie, T., et al., Retrievable IVC filter: preliminary in vitro and in vivo evaluation. J Vasc Interv Radiol, 1995. 6(3): p. 449-54.
- 65. Joels, C.S., R.F. Sing, and B.T. Heniford, Complications of inferior vena cava filters. Am Surg, 2003. 69(8): p. 654-9.
- 66. Jouanny, P., et al., [Heparin-induced thrombocytopenia and vena cava filter. Difficulties of treatment]. J Mal Vasc, 1993. 18(4); p. 320-2.
- 67. Kinney, T.B., et al., Does cervical spinal cord injury induce a higher incidence of complications after prophylactic Greenfield inferior vena cava filter usage? J Vasc Interv Radiol, 1996, 7(6): p. 907-15.
- 68. Korbin, C.D., et al., In vitro flow phantom analysis and clot-capturing ability of tncompletely opened Vena Tech-LGM vena caval filters. Cardiovasc Intervent Radiol, 1993. 16(1): p. 3-6.
- 69. Kussmaul, W.G., 3rd, et al., Right heart catheterization in the presence of an inferior vena cava filter. Catheter Cardiovasc Interv, 2001. 52(4): p. 476-8.
- 70. Kuszyk, B.S., et al., Subcutaneously tethered temporary filter: pathologic effects in swine. J Vasc Interv Radiol, 1995. 6(6): p. 895-902.
- 71. Lang, W., et al., Spontaneous disruption of two Greenfield vena caval filters. Radiology, 1990. 174(2): p. 445-6.
- 72. Lang, W., et al., [Cava filter for prevention of lung embolism: is implantation still justified?]. Zentralbl Chir, 1994, 119(9): p. 625-30.
- 73. Langan, E.M., 3rd, et al., Prophylactic inferior vena cava filters in trauma patients at high risk: follow-up examination and risk/benefit assessment. J Vasc Surg, 1999. 30(3): p. 484-88.
- 74. Lemoigne, F., et al., [Prevention of pulmonary embolism by the Kimray-Greenfield filter. 22 cases]. Presse Med, 1983. 12(4): p. 223-6.
- 75. Lemoigne, F., H. Lambert, and J. Jourdan, [Migration of the Kimray-Greenfield filter when inserting it]. J Chir (Paris), 1982. 119(6-7): p. 441-2.
- 76. Lim, M.C., H.C. Tan, and M.H. Choo, The new titanium Greenfield vena cava filter: initial experience and review. Singapore Med J, 1994. 35(6): p. 622-5.
- 77. Linsenmaier, U., et al., Indications, management, and complications of temporary inferior vena cava filters. Cardiovasc Intervent Radiol, 1998. 21(6): p. 464-9.

Lehmann Thomas, LLC

Confidential

Confidential

- 78. Lofaso, F., et al., Failure of the intracaval filter of Gunther to prevent recurrence of pulmonary embolism--report of two cases. Intensive Care Med, 1990. 16(7): p. 457-9.
- 79. Maass, D., et al., The helix filter: a new vena caval filter for the prevention of pulmonary embolism. J Cardiovasc Surg (Torino), 1985. 26(2): p. 116-23.
- 80. Marelich, G.P. and R.S. Tharratt, Greenfield inferior vena cava filter dislodged during central venous catheter placement. Chest, 1994, 106(3): p. 957-9.
- 81. Matchett, W.J., et al., Suprarenal vena caval filter placement: follow-up of four filter types in 22 patients. J Vasc Interv Radiol, 1998, 9(4): p. 588-93.
- 82. McCowan, T.C., et al., Amplatz vena caval filter: clinical experience in 30 patients. AJR Am J Roentgenol, 1990. 155(1): p. 177-81.
- 83. McCowan, T.C., et al., Complications of the nitinol vena caval filter. J Vasc Interv Radiol, 1992. 3(2): p. 401-8.
- 84. Messmer, J.M. and L.J. Greenfield, Greenfield caval filters: long-term radiographic follow-up study. Radiology, 1985. 156(3): p. 613-8.
- 85. Millward, S.F., J. Aquino, Jr., and R.A. Peterson, Oversized inferior vena cava: use of a single Vena Tech-LGM filter. Can Assoc Radiol J, 1996. 47(4): p. 272-4.
- 86. Millward, S.F., et al., LGM (Vena Tech) vena cava filter: clinical experience in 64 patients. J Vasc Interv Radiol, 1991. 2(4): p. 429-33.
- 87. Moore, B.S., et al., Transcatheter manipulation of asymmetrically opened titanium Greenfield filters. J Vasc Interv Radiol, 1993. 4(5): p. 687-90.
- 88. Mosca, S., et al., [The cardiac migration of a caval filter]. Radiol Med (Torino), 1994. 88(5): p. 682-4.
- 89. Muller, U.S. and E. Most, [Percutaneous, transvenous retraction of a vena cava filter from the right ventricle]. Z Kardiol, 1987. 76(3): p. 180-1.
- 90. Murphy, T.P., et al., LGM vena cava filter: objective evaluation of early results. J Vasc Interv Radiol, 1991. 2(1): p. 107-15.
- 91. Neuzil, D.F., et al., Duplex-directed vena caval filter placement: report of initial experience. Surgery, 1998. 123(4): p. 470-4.
- 92. Nevin, W.S. and G.W. Beddingfield, Migration of vena cava filter. Jama, 1972. 222(1): p. 88.
- 93. Nicholson, A.A., et al., Long-term follow-up of the Bird's Nest IVC Filter. Clin Radiol, 1999. 54(11): p. 759-64.
- 94. Palestrant, A.M., M. Prince, and M. Simon, Comparative in vitro evaluation of the nitinol inferior vena cava filter. Radiology, 1982. 145(2): p. 351-5.
- 95. Patterson, R.B., et al., Repositioning of partially dislodged Greenfield filters from the right atrium by use of a tip deflection wire. J Vasc Surg. 1990, 12(1): p. 70-2.
- 96. Petitjean, C., et al., [Interruption of the inferior vena cava by the DIL filter. Experience apropos of 34 cases]. J Chir (Paris), 1991. 128(11): p. 494-7.
- 97. Poletti, P.A., et al., Long-term results of the Simon nitinol inferior vena cava filter. Eur Radiol, 1998. 8(2): p. 289-94.
- 98. Porcellini, M., et al., Intracardiac migration of nitinol TrapEase vena cava filter and paradoxical embolism. Eur J Cardiothorac Surg, 2002. 22(3): p. 460-1.
- 99. Pouillaud, C., et al., [Proximal migration of a caval filter. Apropos of a case]. Ann Cardiol Angeiol (Paris), 1988. 37(3): p. 129-31.

Lehmann Thomas, LLC

Confidential

Confidential

- 100. Proctor, M.C., K.J. Cho, and L.J. Greenfield, In vivo evaluation of vena caval filters: can function be linked to design characteristics? Cardiovasc Intervent Radiol, 2000. 23(6): p. 460-5.
- 101. Puram, B., et al., Acute myocardial infarction resulting from the migration of a Greenfield filter. Chest, 1990, 98(6): p. 1510-1.
- 102. Qian, Z., et al., In vitro and in vivo experimental evaluation of a new vena caval filter. J Vasc Interv Radiol, 1994. 5(3): p. 513-8.
- 103. Queiroz, R. and D.L. Waldman, Transvenous retrieval of a Greenfield filter lodged in the tricuspid valve. Cathet Cardiovasc Diagn, 1998. 44(3): p. 310-2.
- 104. Raghavan, S., A. Akhtar, and B. Bastani, Migration of inferior vena cava filter into renal hilum. Nephron, 2002. 91(2): p. 333-5.
- 105. Rao, G., Long-term experience with the Mobin-Uddin umbrella. Int Surg, 1980. 65(3): p. 223-30.
- 106. Ray, J.F., et al., Distal propulsion of vena cava umbrella by cardiac massage. Chest, 1975. 67(5): p. 608-10.
- 107. Recto, M.R. and W.L. Sobczyk, A novel technique to prevent displacement of inferior vena cava filter during cardiac catheterization with subsequent transcatheter closure of a patent foramen ovale in a patient with cryptogenic shock. J Invasive Cardiol, 2002. 14(8): p. 471-3.
- Reed, R.A., et al., The use of inferior vena cava filters in pediatric patients for pulmonary embolus prophylaxis. Cardiovasc Intervent Radiol, 1996. 19(6): p. 401 5.
- 109. Reed, R.A., et al., Use of the Bird's Nest filter in oversized inferior venae cavae. J Vasc Interv Radiol, 1991. 2(4): p. 447-50.
- 110. Ricco, J.B., et al., The LGM Vena-Tech caval filter: results of a multicenter study. Ann Vasc Surg, 1995. 9 Suppl: p. S89-100.
- Robinson, J.D., et al., In vitro evaluation of caval filters. Cardiovasc Intervent Radiol, 1988. 11(6): p. 346-51.
- 112. Rodriguez, L.F. and F.S. Saltiel, Long-term follow-up of ectopic intracardiac Greenfield filter. Chest, 1993. 104(2): p. 611-2.
- 113. Rochm, J.O., Jr., et al., The bird's nest inferior vena cava filter: progress report. Radiology, 1988. 168(3): p. 745-9.
- 114. Roehm, J.O., Jr. and J.W. Thomas, The twist technique: a method to minimize wtre prolapse during Bird's Nest filter placement. J Vasc Interv Radiol, 1995. 6(3): p. 455-9.
- 115. Rogers, F. and C. Lawler, Dislodgement of an inferior vena cava filter during central line placement in an ICU patient: a case report. Injury, 2001. 32(10): p. 787-8.
- 116. Rogoff, P.A., et al., Cephalic migration of the bird's nest inferior vena caval filter: report of two cases. Radiology, 1992. 184(3): p. 819-22.
- 117. Rose, B.S., et al., Percutaneous transfemoral placement of the Kimray-Greenfield vena cava filter. Radiology, 1987. 165(2): p. 373-6.
- 118. Rousseau, H., et al., The 6-F nitinol TrapEase inferior vena cava filter: results of a prospective multicenter trial. J Vasc Interv Radiol, 2001. 12(3): p. 299-304.
- 119. Rudondy, P., et al., Interruption of the inferior vena cava using the Vascor filter: preliminary series of 51 cases. Cardiovasc Surg, 1994. 2(3): p. 344-9.

Lehmann Thomas, LLC

Confidential

Confidential

- 120. Sarkar, M.R. and F.M. Lemminger, An unusual cause of upper gastrointestinal haemorrhage--perforation of a vena cava filter into the duodenum. Vasa, 1997. 26(4): p. 305-7.
- 121. Savin, M.A. and R.D. Shlansky-Goldberg, Greenfield filter fixation in large venae cavae. J Vasc Interv Radiol, 1998. 9(1 Pt 1): p. 75-80.
- 122. Schleich, J.M., et al., [Efficacy and tolerance of 2 new percutaneous vena cava filters. A prospective study in 80 patients]. Arch Mal Coeur Vaiss, 1992. 85(10): p. 1435-41.
- Schleich, J.M., et al., Short-term follow-up of inferior vena caval filters: comparison of imaging techniques. AJR Am J Roentgenol, 1993. 161(4): p. 799-803.
- 124. Schleich, J.M., et al., Long-term follow-up of percutaneous vena cava filters: a prospective study in 100 consecutive patients. Eur J Vasc Endovasc Surg, 2001. 21(5): p. 450-7.
- 125. Schneider, P.A., et al., Caudal migration of the Gunther vena caval filter. Radiology, 1989. 173(2): p. 465-6.
- 126. Schwarz, R.E., et al., Inferior vena cava filters in cancer patients: indications and outcome. J Clin Oncol, 1996. 14(2): p. 652-7.
- 127. Seita, J., et al., Surgical management of a penetrated greenfield inferior vena cava filter. Thorac Cardiovasc Surg, 2001. 49(4): p. 243-4.
- 128. Sherman, P.M., et al., In vivo evaluation of the effects of gravitational force (÷Gz) on over-the-wire stainless steel Greenfield inferior vena cava filter in swine. Cardiovasc Intervent Radiol, 2003. 26(4): p. 386-94.
- 129. Sidawy, A.N. and J.O. Menzoian, Distal migration and deformation of the Greenfield vena cava filter. Surgery, 1986. 99(3): p. 369-72.
- 130. Simon, M., et al., Simon nitinol inferior vena cava filter: initial clinical experience. Work in progress. Radiology, 1989. 172(1): p. 99-103.
- 131. Smith, B.A., Vena caval filters. Emerg Med Clin North Am, 1994. 12(3): p. 645-56.
- 132. Starok, M.S. and A.A. Common, Follow-up after insertion of Bird's Nest inferior vena caval filters. Can Assoc Radiol J, 1996. 47(3): p. 189-94.
- 133. Stecker, M.S., W.H. Barnhart, and E.V. Lang, Evaluation of a spiral nitinol temporary inferior vena caval filter. Acad Radiol, 2001. 8(6): p. 484-93.
- 134. Stewart, J.R., et al., Clinical results of suprarenal placement of the Greenfield vena cava filter. Surgery, 1982. 92(1): p. 1-4.
- 135. Tagliabue, M., I. Merati, and M. Crivellaro, [Computerized tomography in the follow-up of inferior vena cava filters]. Radiol Med (Torino), 1991. 82(3): p. 315-21.
- 136. Taheri, S.A., et al., A complication of the Greenfield filter: fracture and distal migration of two struts-a case report. J Vasc Surg, 1992. 16(1): p. 96-9.
- 137. Tay, K.H., et al., Repeated Gunther Tulip inferior vena cava filter repositioning to prolong implantation time. J Vasc Interv Radiol, 2002. 13(5): p. 509-12.
- 138. Teitelbaum, G.P., W.G. Bradley, Jr., and B.D. Klein, MR imaging artifacts, ferromagnetism, and magnetic torque of intravascular filters, stents, and coils. Radiology, 1988, 166(3): p. 657-64.
- 139. Teitelbaum, G.P., et al., Insertion and recovery of a new retrievable vena caval filter. Work in progress. Invest Radiol, 1988. 23(7): p. 527-33.

Lehmann Thomas, LLC

Confidential Confidential Confidential

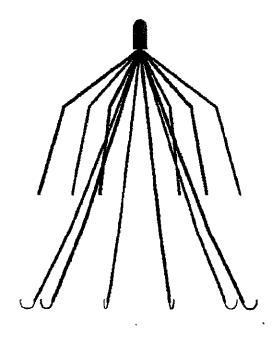
- 140. Valslic, C., et al., [Migration of an Antheor filter in the pulmonary artery. A case]. Presse Med, 1993. 22(15): p. 717-23.
- 141. Vinot, O., et al., [Central venous catheterization...don't forget the caval filter]. Ann Fr Anesth Reanim, 1998. 17(1): p. 52-4.
- 142. von Bary, S., et al., [Vena cava filter--prevention of pulmonary embolism. Report of clinical experiences]. Zentralbl Chir, 1999. 124(1): p. 27-31.
- 143. Von Gizycki, A.C., P. Gannon, and R. Van Tassel, Distal migration of vena cava filter. Jama, 1973. 224(4): p. 529.
- 144. Vrachliotis, T.G., et al., Percutaneous management of extensive clot trapped in a temporary vena cava filter. J Endovasc Ther, 2003. 10(5): p. 1001-5.
- 145. White, K.E. and G.K. McLean, Bird's nest filter: inferior strut migration during massive thromboembolization. J Vasc Interv Radiol, 1996. 7(4): p. 537-40.
- 146. Williamson, M.R., et al., Effect of a 1.5 Tesla magnetic field on Greenfield filters in vitro and in dogs. Angiology, 1988. 39(12): p. 1022-4.
- 147. Wojcik, R., et al., Long-term follow-up of trauma patients with a vena caval filter. J Trauma, 2000. 49(5): p. 839-43.
- 148. Wojtowycz, M.M., et al., The Bird's Nest inferior vena caval filter: review of a single-center experience. J Vasc Interv Radiol, 1997. 8(2): p. 171-9.
- 149. Wolf, F., et al., [Temporary and permanent vena cava filter for prevention of pulmonary embolism]. Wien Med Wochenschr Suppl, 2002(113): p. 43-5.
- 150. Wolfer, G.K., Jr., F.C. Taylor, and D.C. Smith, Quantification of the effects of respiration and parallax on inferior vena caval filter position. J Vasc Interv Radiol, 1994. 5(2): p. 357-60.
- 151. Young, N., Clinical follow-up of patients with percutaneously inserted inferior vena caval filters. Australas Radiol, 1995. 39(3): p. 233-6.

Lehmann Thomas, LLC

Draft of IFU Changes, Mary Edwards

Recovery®
Filter System
for use in the Vena Cava

Instructions for Use



CEOO86

PK5014853 Rev. 00

1

A. General Information



Recovery® Filter System



Expiration Date.



Lot Number.



Attention, See Instructions for Use.



Sterifized by Ethylene Oxide.

NON PYROGENIC

Nonpyrogenic.



Single Use, Do Not Reuse,



Do Not Restentize.



Sterile, non-pyrogenic unless package is damaged or opened.



MRI compatible: MRI-safe and neithor interferes with nor is affected by the operations of an MRI device.



Warning: After use, the Recovery® Filter System may be a potential biohazard. Handle and dispose of in accordance with accepted medical practice and applicable laws and regulations.



Contents: REF:RF-048F

KitA:One(1)7 Ft: introducerCatheler48 cm.Long with Diator KitB:One(1)/Recovery®FilterFerroral Delivery System



Bard, Recovery, and Recovery Cone are registered trademarks of C. R. Bard, Inc. or an affiliate.

U.S. Patent No. 6,007,558 and 6,258,026. Other U.S. and Foreign Patents Pending.

The Recovery® Filter represents a new generation of venous interruption devices designed to prevent pulmonary embolism. The unique design and material of the Recovery Filter provide excellent filtering efficiency and allow percutaneous placement through a standard 7 French I.D. angiographic introducer sheath with minimum entry site difficulties. The placement procedure is quick and simple to perform.

The Fernoral set is designed to advance through its 48 cm, 7 French t.D. Introducer catheter using a flexible, nitinol pusher wire. A pad at the end of the wire is designed to push on the filter apex and a grooved segment is designed to hold and properly orient the filter legs. These components secure the filter to the pusher wire as it advances the filter, tip first, to the distal end of the catheter, positioned below the lowest renal vein. When the tip of the filter approaches the tip of the introducer catheter, it will be positioned between the radiopaque markers on the Introducer catheter. The introducer catheter and delivery assembly are then pulled back onto the pusher wire handle to unsheath and release the filter and allow it to recover to its predetermined shape. The centering system allows the Recovery Filter to be deployed with the filter tip centered and prevents the legs from crossing.

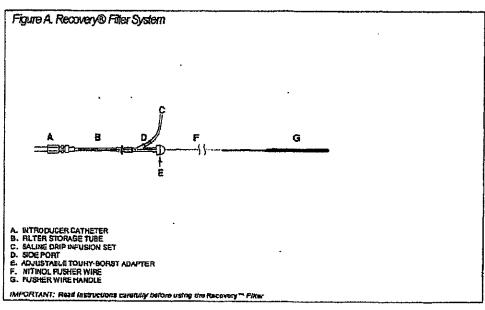
The Recovery Filter is designed to act as a permanent filter. When clinically indicated, the Recovery Filter may be percutaneously removed after implantation according to the instructions provided under the Optional Removal Procedure. The Recovery Filter's elastic hooks allow the filter to remain rigid and resist migration, but elastically deform when the filter is percutaneously removed. (See Optional Removal Procedure for specific removal instructions).

MRI Competible: The Recovery Filter Implant is MRI-safe and neither interferes with nor is affected by the operations of a MRI device.

B. Device Description _

The Recovery Filter System consists of the Filter and Delivery System. The Recovery Filter consists of twelve, shape memory nitinol wires emenating from a central nitinol sleeve. These twelve wires form two levels of filtration of emboli: the legs provide the lower level of filtration and the arms provide the upper level of filtration. The Recovery Filter is intended to be used in vena cava with diameters up to 28 mm.

The Recovery Fliter Delivery System is illustrated in Figure A. The Delivery System consists of a 7 French I.D. introducer sheath and dilator, the Recovery filter, a storage tube with seline infusion port, and a pusher system. The Recovery Filter is packaged pre-loaded within the delivery storage tube.



C. Indications for Use

The Recovery Filter System is indicated for use in the prevention of recurrent pulmonary embolism via permanent placement in the vena cave in the following situations:

- Pulmonary thromboembolism when anticoagulants are contraindicated.
- · Fallure of anticoagulant therapy for thromboembolic disease.
- Emergency treatment following massive pulmonary embolism where anticipated benefits of conventional therapy are reduced.

- Chronic, recurrent pulmonary embolism where anticoagulant therapy has falled or is contraindicated. Is
- Recovery filter may be removed according to the instructions supplied below under Section labeled:
 Optional Procedure for Filter Removal.

D. Contraindications for Use

CAUTION: If the corrected, inferior vena cava (IVC) diameter exceeds 28 mm the filter must not be inserted into the IVC.

The Recovery Filter should not be implanted in:

- Pregnant patients when fluoroscopy may endanger the fetus. Risks and benefits should be assessed carefully.
- · Patients with vena cava diameters greater than 28 mm.
- · Patients with risk of septic embolism,

E. Warnings

Recovery Filter Implantation

- The Recovery Fitter vena cava fitter is pre-loaded into the storage tube and is intended for single use only.
 Do not deploy the fitter prior to proper positioning in the Inferior vena cava (IVC), as the Recovery Fitter cannot be safety reloaded into the storage tube.
- Delivery of the Recovery Filter through the introducer sheath is advance-only. Retraction of the pusher wire during delivery could result in dislodgment of the Filter, crossing of Filter legs or arms, and could prevent the Filter from further advancement within the sheath.
- The Recovery Filter System is designed for femoral approaches only. Never use the Recovery Filter and Delivery System for superior approaches (jugular, subclavian or anticubital vein), as this will result in improper Recovery Filter orientation within the inferior vena cava.
- If large thrombus is demonstrated at the initial delivery site, do not attempt to deliver the filter through it.
 Attempt filter delivery through an atternate site. A small thrombus may be bypassed by the guidewire and introducer.
- Only use the Recovery Cone® Removal System to remove the Recovery Filter. Never re-deploy a removed filter.
- 6. Never advance the guidewire or introducer shealth/dilator or deploy the filter without fluoroscopic guidance.

Recovery Filter Removal

- Do not attempt to remove the Recovery Filter if significant amounts of thrombus are trapped within the Filter
 or if the Filter tip is embedded within the vena caval walt.
- Use only the Bard Recovery Cone® (packaged separately) to retrieve the Recovery Filter. Use of other devices has resulted in recurrent pulmonary embolism.

F. Precautions

Recovery Filter Implantation

- The filter should be placed in the suprarenal position in pregnant women and in women of childbearing age.¹
- Anatomical variances may complicate filter insertion and deployment. Careful attention to these instructions for Use can shorten insertion time and reduce the tikelihood of difficulties.



¹ACR Standard For The Performance Of Percutaneous Permanent Inferior Vena Cava (IVC) Fitter Ptacement For The Prevention Of Pulmonary Embolism - 2000 (Res. 12), Effective 01/01/01

and the commence of the contract of the contra

 Spinal deformations: It is important to exercise care when contemplating implantation in patients with significant kyphoscolicalic spinal deformations because the inferior vena cava may follow the general course of such anatomic deformations. This may make percutaneous removal of the filter more difficult.

Recovery Filter Removal

- Anatomical variances may complicate insertion and deployment of the Recovery Cone® Removal System.
 Careful attention to these instructions for Use can shorten insertion time and reduce the likelihood of difficulties.
- Spinal deformations: It is Important to exercise care when contemplating removing the Recovery Filter with
 the Recovery Cone Removal System in patients with significant kyphoscoliotic spinal deformations because
 the inferior vena cava may follow the general course of such anatomic deformations. This may require
 advanced techniques to remove the filter.

G. Potential Complications

Migration of the fiker. This may be caused by placement in oversized vena cava diameters exceeding 28 mm or if proper anchoring techniques are not utilized.

- Perforation
 This may occur if proper insertion technique is not utilized.
- Acute or Recurrent pulmonary embolism. This has been reported despite filter usage. It is not known if thrombus passed through the filter or via collateral means.
- · Caval (occlusion).

Y - 100 0 0 0 0 0

CONTROL OF THE PROPERTY OF THE

学生等的图象



H. Equipment Required

The following equipment is required for use:

- One Recovery Filter and Delivery System that contains:
 - One 48 cm, 7 French I.D. introducer sheath and dilator set
 - One storage tube with pre-loaded Recovery Filter and pusher delivery system
- 0.038* 3 mm J-tipped Guidewire, 110 cm long or longer
- 18 gauge entry needle
- Saline
- · Sterile extension tube for saline drip or infusion
- All basic materials for venipuncture: scalpel, #11 blade, local anesthesia, drapes, etc

 An entry kit consisting of a 0.038" 3 mm J-tipped guldewire, entry needle, #11 scalpel and 10-cc syringe is available from C. R. Bard, Inc., catalog number 4000E.

If the physician chooses to percutaneously remove the Recovery® Filter, the Recovery Cone® Removal System is available from C. R. Bard, Inc.

I. Instructions for Use

Insertion of the 7 French Introducer Catheter and Preliminary Venography

- Select a suitable femoral venous access route, on either the right or left side, depending upon the patient's size or anatomy, operator's preference or location of venous thrombosis.
- 2. Prep, drape and anesthetize the skin puncture site in standard fashion.
- 3. Select and open the filter package. Open Kit A introducer Catheter package.
- 4. Nick the skin with a #11 blade and perform venipuncture with an 18 gauge entry needle.
- 5. Insert the J-tipped guidewire and gently advance it into the distal vena cava or Iliac vein.
 NOTE: If resistance is ancountered during a femoral insertion procedure, withdraw the guidewire and check veln patency fluoroscopically with a small injection of contrast medium. If a large thrombus is demonstrated, remove the venipuncture needle and try the veln on the opposite side. A small thrombus may be bypassed by the guidewire and introducer.
- 6. Remove the venipuncture needle over the J-tipped guidewire. Advance the 7 French introducer catheter together with its tapered dilator over the guidewire and into the distal vena cava or the tilac vein.
 NOTE: The introducer catheter has radiopaque markers to assist in visualization and predeployment filler positioning. The radiopaque markers on the introducer catheter provide a "target" location between which the filter should be positioned just prior to unshealthing and deployment.
- Remove the guidewire and dilator, leaving the introducer catheter with its tip in the distal vene cava or illac vein. Flush intermittently by hand or attach to the catheter a constant saline drip Infusion to maintain introducer catheter patency.
 - NOTE: The introducer catheter hub has a special internal design. Care should be taken to make connections firmly, but without excessive force that may cause breakage in the hub.
- Perform a standard inferior venacavogram (typically 30 mL of contrast medium at 15 mL/s). Check for caval thrombi, position of renal veins and congenital anomalies. Select the optimum level for filter placement and measure the IVC diameter, correcting for magnification (typically 20 percent).
- Advance the introducer catheter to the selected level under fluorescopic control. The guidewire and dilator should be reinserted to facilitate this. For femoral Insertion the Introducer catheter tip should be 1 cm below the lowest renal yein.

Filter Delivery

NOTE: Delivery of the Recovery Filter through the introducer sheath with the pusher wire is designed as advance-only. Retraction of the pusher wire during delivery can result in dislodgment of the Filter or crossing of the Filter legs or arms and could prevent the Filter from further advancement within the sheath. Do not pull back on the pusher wire, only advance forward with filter in place.

- 10. Remove the filter and delivery system from Kit 8.
- 11. Connect a 500 mL bag of saline to the sideport of the Y-adapter using a standard drip infusion set. Allow the saline infusion to flow around the filter in the storage tube for 5 seconds to soften it for passage through the introducer catheter. Adjust the infusion set to provide a rapid drip rate. Tighten the Touhy-Borst adapter valve to minimize reflux of saline, but not so tight as to prevent the pusher wire from advancing freely.

NOTE: It is very important to maintain introducer catheter patency with the seline flush so that the grooved segment that holds and properly orients the filter tegs does not become clotted over. This will interfere with filter deptoyment.

12. Attach the free end of the fitter storage tube directly to the introducer catheter already in the veln, allowing the saline infusion to flow into the IVC for a few seconds. The introducer catheter and filter delivery system should be held in a straight line to minimize friction.

Advancement of Filter, Illustrated

FIGURE D

HOLD HAND STATIONARY

Grasp Wire, Push Forward

Release Wire

Move Hand Backwards

Re-grasp Wire

- 13. Advance the Filter by moving the nitnol pusher wire forward through the introducer catheter, advancing the Filter with each forward motion of the pusher wire (Figures 8-E). Do not pull back on the pusher wire, only advance the pusher wire forward. For the operator's convenience, the nitinol pusher wire may be looped, without causing kinking to the nitinol material, to facilitate pusher wire handling and advancement.
- 14. Continue forward movement of the pusher wire until the Filter tip advances to the radiopaque marker on the distal end of the introducer catheter. At this point, the pusher wire handle should be adjacent to the Yadapter.

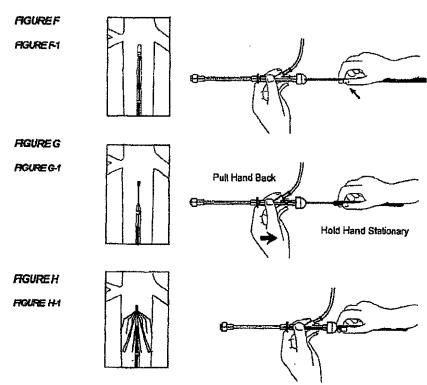
Filter Release/Deployment

- 15. Deliver and release filter as described below:
 - Figure F: Firmly hold the pusher wire handle.

Figure F-1: Filter positioned in introducer catheter between the radiopaque markers prior to deployment in IVC.

NOTE: Do not deliver the Fliter by pushing it beyond the end of the introducer catheter, instead, unsheath the stationary Filter by withdrawing the introducer catheter as described below.

Filter Release, Illustrated



Now release the Filter by unsheathing it in the IVC as follows:

Position the Filter tip 1 cm below the lowest renal vein.

Figure G: With one hand held stationary, the other hand draws the Y-adapter and storage tube assembly back completely over the handle, uncovering and releasing the filter.

Figure G-1: Unstreathing of Filter in IVC.

Figure H: The position of the hands at the completion of the unsheathing process.

Figure H-1: The Filter deployed in the IVC.

- 16. Now withdraw the pusher wire back into the storage tube by firmly holding the Y-adapter, storage tube, and delivery catheter assembly and pulling back on the pusher wire.
- 17. Resume the intermittent saline flush or constant drip infusion to maintain introducer catheter patency,

Follow-up Venacavogram

- A follow-up venacavogram may be performed after withdrawing the introducer catheter into the iliac vein (typically 30 mL of contrast medium at 15 mL/s).
- Remove the introducer catheter and apply routine compression over the puncture site in the usual way to achieve hemostasis.

OPTIONAL PROCEDURE FOR FILTER REMOVAL:

Removal of Recovery Filter

CAUTION: It is strongly recommended that removal of the Recovery® Filter be done using the Recovery Cone® only.

Equipment Required

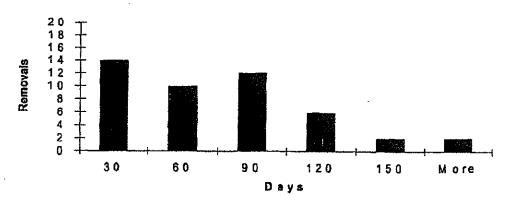
The following equipment is required for use:

- · One Recovery Cone® Removal System that contains:
 - One 75 cm, 10 French I.D. delivery sheath and dilator set
 - One Y-adapter with Recovery Cone and pusher delivery system
- 0.035" 3 mm J-tipped Guidewire, 110 cm long or longer
- · 18 gauge entry needle
- Saline
- · Sterile extension tube for saline drip or syringe for saline infusion
- · All basic materials for venipuncture: scalpel, #11 blade, local anesthesia, drapes, etc.

Clinical Experience

The Recovery Fitter has been used in Canada by a single investigator and two colleagues at six Toronto area hospitals in 58 subjects, under the Special Access regulations. Although essentially only one physician used the device, removal was performed by three physicians with different support stoff and imaging equipment. Of the 58 filters implanted, a total of 46 have been retrieved, 8 remain in place, and 4 patients have died with filters in place of causes unrelated to filter placement or retrieval (leukemia, cancer, polyarteritis and pulmonary aspergillosis, and hemorrhagic stroke). Time to removal ranged from 1 to 161 days, average 60 days (see histogram).

Time to Removal



Follow-up post retrieval has been an average of 325 days (range 1-901 days). Most (n=43) were retrieved via the right internal jugular vein, but some have been via the left internal jugular vein (n=1) and a collateral vein (n=1). One was removed surgically during a cancer operation where the mass was impinging on the filter. The two methods described in the instructions for Use were used to retrieve the filter in all but 4 cases, when a larger

sheath was used, or a snare loop was attempted instead of using the Recovery Cone system. There was one case of asymptomatic pulmonary embolism when using the larger sheath,

The only other adverse event reported was a fractured filter arm and hook. This filter was placed infrarenally in a pregnant woman during the third trimester at the level of L1-L2. The fracture was believed to be secondary to stresses due to delivery and placement infrarenally, causing severe deflection and embedding of the hook into the bony tissue of the vertebrae. The filter was retrieved, minus the hook.

Clinical Experience Summary Table

Recovery Filters Implanted	58
Percutaneous Filter Removals	45
Surgical Filter Removals	1 (Concurrent to tumor resection)
Patient Age	8-89 years (52 years average)
Reason for filter placement	
Contraindication to anticoagulation	40
Complications associated with anticoagulation	13
Failure of anticoagulation	3
Prophylaxis	2
Time to removal	1-161 days (60 days average)
Follow-up post-removat	1-901 days (325 average)
Filter Removal Complications	
Technical	0
Hook fracture secondary to stresses due to labor and birth and infrarenal placement	1
Asymptomatic pulmonary embolism post-removal	1

Procedural Instructions

Insertion of the Introducer Catheter

- Select a suitable jugular venous access route on either the right or left side depending upon the palient's size or anatomy, operator's preference or location of venous thrombosis.
- 2. Prep, drape and anesthetize the skin puncture site in standard fashion.
- 3. Select and open the Recovery Cone Removal System package. Open Kit A Introducer Catheter package.
- 4. Nick the skin with a #11 blade and perform venipuncture with an 18-gauge entry needle.
- 5. Insert the guidewire and gently advance it to the location of the Recovery Filter for removal.
- Remove the venipuncture needle over the guidewire. Advance the 10 French introducer catheter together with its tapered dilator over the guidewire and into the vain.
 - NOTE: The introducer catheter has a radiopaque marker at the distal end of the catheter sheath to assist in visualization.
- Remove the guidewire and dilator, leaving the introducer catheter with its tip in the appropriate location.
 Flush intermittently by hand or attach to the catheter a constant saline drip infusion to maintain introducer catheter patency.
- Perform a standard Inferior venacavogram (typically 30 mt. of contrast medium at 15 mt/s). Check for thrombus within the filter. If there is significant thrombus within the filter, do not remove the Recovery Filter.

Recovery Cone Insertion and Delivery

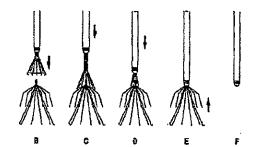
- Remove the cone and pusher system from Kit B.
- 10. Flush the central lumen of the cone catheter and wet the cone with saline---preferably heparinized saline.
- Slowly withdraw the cone into the Y-adapter to collapse the cone.

NOTE: The cone must be fully retracted into the Y-adapter before connecting the system to the introducer catheter to ensure that the cone can be easily delivered through the catheter.

- 12. Connect a 500 mL bag or a syringe of saline to the sideport of the Y-adapter. Allow the saline infusion to flow around the removal cone in the Y-adapter for 5 seconds. Tighten the Touthy-Borst adapter valve to minimize reflux of saline toward the feeder, but not so tight as to prevent the pusher shaft from advancing freely.
- Attach the male end of the Y-adapter with the collapsed cone directly to the introducer catheter. The introducer catheter and filter delivery system should be held in a straight line to minimize friction.
- Advance the cone by moving the pusher shaft forward through the introducer catheter, advancing the cone with each forward motion of the pusher shaft.
- 15. Continue forward movement of the pusher wire until the cone advances to the radiopaque marker on the distalt end of the introducer catheter. Unsheathe to open the cone by stabilizing the shaft and retracting the catheter.

Capture of Recovery Fifter

Recovery Filter Removal



16. The capture of the Recovery Filter is Illustrated in Figures 8-F;

Figure 8: After the cone has been opened superior to the Filter, advance the cone over the Filter tip by holding the introducer catheter stationary and advancing the pusher shaft. It is recommended to obtain an anterior-oblique fluoroscopic image to confirm that the cone is over the Filter tip.

Figure C: Close the cone over the Filter tip by advancing the introducer catheter over the cone while holding the pusher shaft stationary.

Figure D: Continue advancing the introducer catheter over the cone until the cone is within the introducer catheter.

Figure E: With the cone collapsed over the Filter, remove the Filter by stabilizing the introducer catheter and retracting the pusher shaft in one, smooth, continuous motion.

Figure F: The Filter has been retracted into the catheter.

Follow-up Venacavogram

- A follow-up venacavogram may be performed after withdrawing the introducer catheter (typically 30 mL of contrast medium at 15 mL/s).
- Remove the introducer catheter and apply routine compression over the puncture site in the usual way to achieve hemostasis.

Guidewire - Assisted Technique

Due to anatomical variances with respect to the position of the *Recovery Filter*, guidewire assisted techniques may be used.

Use of a Guidewire

If it is difficult to advance the cone over the Recovery Filter tip, one may use a guidewire to facilitate advancement of the cone over the Filter tip.

Withdraw the introducer sheath and Recovery Cone shaft away from the Filter tip. Insert a 0.035" guidewire through the central lumen (J-tipped or angled tip; a hydrophilio-coated guidewire is recommended). Advance the guidewire through the cone and through the Filter near the Filter tip.

After it has been confirmed that the guidewire is in contact with or in close proximity to the Filter tip, advance the cone over the guidewire to the Filter tip.

Advance the introducer sheath to slightly collapse the cone over the Filter tip. Withdraw the guidewire into the pusher shaft.

Continue removing the Filter as described in step 16.

J. How Supplied

Each Recovery Filter is supplied preloaded in its storage tube. Each Recovery Filter is sterile and nonpyrogenic unless package is damaged or opened, and is ready to be used for a single use only. The storage tube and delivery system are pre-assembled. If the filter is inadvertently discharged, do not attempt to re-sterilize or reload it.

Note: After use, the Recovery Filter accessories and insertion supplies may be a potential biohazard. Handle and dispose of in accordance with accepted medical practice and applicable local, state and federal laws and regulations.

This Product should be stored in a cool (room temperature), dry place.

K. Warranty

Bard warrants to the first purchaser of this product that this product will be free from defects in materials and workmanship for a period of one year from the date of first purchase and liability under this limited product warranty will be limited to repair or replacement of the defective product, in Bard's sole discretion or refunding your net price paid. Wear and tear from normal use or defects resulting from misuse of this product are not covered by this limited warranty.

TO THE EXTENT ALLOWABLE BY APPLICABLE LAW, THIS LIMITED PRODUCT WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, WHETHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT WILL BARD BE LIABLE TO YOU FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM YOUR HANDLING OR USE OF THIS PRODUCT.

Some states/countries do not allow an exclusion of implied warranties, incidental or consequential damages. You may be entitled to additional remedies under the laws of your state/country.

Labeling Issue Date:

In the event 3 years have elapsed between this date and product use, the user should contact C. R. Bard, Inc. to see if additional product information is available. (Inside U.S.: 1-800-321-4254; Outside U.S.: 1-480-894-9515)

Caution: Federal (U.S.A.) law restricts this device to sale by or on the order of a physician.

Bard, Recovery, and Recovery Cone are registered trademarks of C. R. Bard, inc. or an affiliate.

U.S. Patent No. 6,007,558 and 6,258,026. Other U.S. and Foreign Patents Pending.

Copyright @ 2003, C. R. Bard, Inc. All Rights Reserved.

Bard Peripheral Vescular, Inc. Tempe, AZ 85281 Inside U.S.: 1-800-321-4254 Outside U.S.: 1-480-894-9515

EEA Authorized Representative: Bard Limited Crawley, UK RH1198P



EXHIBIT 42

=
==
سيسا
_
ىپ
\Box
=
پي
رے

Special Actions 13 15 15 15 15 15 15 15			Recovery Filt	Recovery Fitter Detached Limbs - Patient Comparison Matrix CONFIDENTIAL	mparison Matrix		10f13
Sinch Access Acce	Section of the sectio	*					
1.	The state of the s	Special Assesses Do Atta				40	
N. Stati Acappia No. Stational Supple Native States No. Stational Supple Native States No. Stational State				3104020049			
N. Stall Knoppin Welthreet Proposite Stappin Nerry Hosseld Wenne Dourng-schothospin Stappin Nerry Hosseld Wenne Dourng-schothospin Stappin Nerry Hosseld Wenne Dourng-schothospin Stappin Nerry Hosseld Wenner Dourng-schothospin Welthreet		T	•			83	25.25
Communication Communicatio		Mt. Miles Managares		·		 	•
17 Marrier Auer 17 Julier 17 Julier 18 Marcheria 18 Ma			PERCENTIFICATION PROBLEM	Scripps Moncy Hospital	Mense Country aide Hospital	Oronson Meetily Science their exists	
10 10 10 10 10 10 10 10	The state of the s	Toronte, Canada	Words F.	200000000000000000000000000000000000000			ind Treach Due now included 1
17 Marrier Auch 19 Authority 10 Retained at Hoppial 10 Retained				ST. 100 100 100 100 100 100 100 100 100 10	Foloty Harber, FL	Position OR	Neurope TX
Vienth MMT D. Residented of topial D. Geodere Vest Christope D. Geodere Vest Christope Vest Ch	TIONS IT	Or, Mutay Auch	Or July	Or fellowin Supporters			
Vertical Miles Vert				200000000000000000000000000000000000000	DI, Jehry Mezwecki	Dr. John Kaufman	. Dr Phillis Zerv
		YON	P. MacDonild	C. Gardene			
					Alloog Lucy	Kathleen Spegar	J3507 Green
10,00000000000000000000000000000000000		Yourst HMT		No. Rotelned atl Mapital	Yes CNP 12579	Alteriored filter removal	ļ
						with the same of t	No. Rott med at Hospital
1/2/2002 1/2/2004		116/12/02	10/20/2003	11/202033	DOMOGOOD .		
Traylor Tray		4116/2002	12/20/2003	TOUGH CON	TOPHEN.	00000	10/2003
1871-2004 1717		2018/2002	and a company	#M07#75	W17200	37272004	\$07200c
1031-42	DATE STATE AND A STATE OF THE S	424	-	2040004	307200	\$232004	Separate Sep
Propress Prop			40051157	3/1B/2DD#	A-1904FIR	30000	
Programmy University Univ		251801	JUKDOWI	07010536	DAY CHANGE		Mirror
Delacted ann state the Delacted ann state delacted ann state the Delacted ann state and D	100 To 10	Preparence			60701110	0.200	Undrown
Detacted any most star the Unintwork University December 1 Plant places according Total process according to the places accord				- Carronal	Prophylectic	יויייסייורט	Prophyads
Delient delivered e boty, Uniques Delient delivered Uniques Delient delivered Uniques Delient delivered Uniques Delivered Uniques Delivered Uniques Un	Cont P. Nation	Detacted arm resent after the			The second first beautiful to		Patient was in JCU for a tong period
Version Vers		psient delivered a baby.		Unkrown	- ophn patrici brossa oropetin.		Patient had numerous venous lines in and out during occupa of
Victorian Vict	PLANE WITH UP PARTY		The state of the s				(INSTITUTE)
Universe Uni	8		1	8	R	~	- CANDAN
Version University Cot Scan Cot Scan University Est for a great University Version Cot Scan University Version Cot Scan University Version Cot Scan University Version Cot Scan Ver		[- 	ļ	Σ	* !!	Uninown	
Vota Cit Ban CT Ban Universit E1 Vota Citro gran Vota Citro Vo				DIRECTION OF THE PERSON	200 00 / 54.	Unimown	- Arkadam
Cit Ban Cit Ban Universe Fig. 1-Arm projected send files: tip		Yers	Unknawn	Unknown	(A)		
CT Ban CT Ban Von Catal Von Ca			:	_: 		EMPERIO -	Unknows
Cot Dan Fig. Year Projected can like tip Year Year Year Year Year Year Y			- Intersory	Unknown	Dhirown		
Vera Geno gran. 1 Am projected since files tip 1 Described am isen on E.ray 2 Ams since described to the files 2 Ams since described to the files 2 Ams and described to the files 3 Ams and described to the files 4 Artigion 4 Artigion 5 Ams and described to the files 5 Ams and described to th	Charles in section			, i	,		Urknown
14,700 Figure 1 (1) Figure 1 (1	The Part Court of the Part of		1	York Care gram	Varia Citya gitimi	Vario Cave otale	
1-Lam projected sheets like, tip 1-Detached and account on K-ray in the lamber of the		ļ		38	-	11.	
Adjacent is translation. Filter filted significant and filter control file. Carter for the filter f		Acre printed approx 5 pt.	Yey.	Yes	24%	, and	9 8
Control of the contro	100	discount of the state of the st	1 Detached arm bean on Knay	£.		† ·	£
Democrated arm and father removed successfully. 1 Hook missing, Not according to the common of the c	30 3 2	cutta tracks not visible	A INSTITUTE STATE OF THE STATE		cave well adjacent to the fator.	1 Delectred arm in body, unknown in position	i-Detected and in Carawall, sbore the Repails
This in good condition. This in good condition. This in good condition. This in good condition. This is good conditio		Detached art and Litter removed subconfiely. 1 Hook missing, Not seen of CT	¥	1 Am cenaris in Right Resal Vein		1 Detaches ammenaire in body. 1	(- Detached erranament Rt. Ventreta
This is good contrict. This is good contrict. Autropics Autropi	Care Man	24mm					
This is produced right and arm tembered, no pit Unitroun Filter interess. 1 - Producing to the highly reported. 4.11.2002 4.11.2002 1.27.0.2001 1.1 Foot minering to the resolution of the r					ZB,9 mm	Undrown	Unithoya
4/10/2002 12/20/2003 2/14/2004 3/17/2004 3/17/2004 11) Hook 11 Hook 11		This in prodeondries:			Filter menowers: 1. Dock missing land		Northal foes mythm. I are in Rt. Ventricks. Dr. Zeni comunicativith Dr. Kaufmen Beth doctors spreed. As
C5 San Yel Yel Yel Yel		4011/2002	(DOCACA)	2042006		-	distant readof.
11 From		CTSon	T			Enthalt remits in supporting	47/2054
		1 150g	1	F	2	₽	Fe Paris

CONFIDENTIAL - SUBJECT TO PROTECTIVE ORDER

Comment Comment Comment Co	:1/1/2005		Recovery Filt	Recovery Filter Detached Limbs - Patient Comparison Matrix COMPIDEMTTAL	Aberison Matrix		25/13
Stude Second thanks Stude Second thanks	Detections of Accounting	4	-				,
Still Life Exposed tabulating Still Life Exposed tabulatin	Complete sec	56			2	14	£3
Stilute Endografit Hastell Stilute Endogr	CONTRACTOR OF THE PARTY OF THE			7288	Tous	-	
Stude Second Handle Stude Second Handle		m	6			:	
R. Lary Toolsts		Si Luke Episocoat Hasertal				-	-
The Part of Control			Bushou adments notice	Million Hershipy Medical Carller	Sexte Clear Valley Medical Cent	_	In Distance Seath House
Cr. Eary Tones Dr. Eary		Fourier, TX	Housen TX	Hereber PA	Company of the Compan		
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,			-				For Worth, TX
Warry Salitic Warry Salitic Warry Salitic Warry Salitic Warry Salitic Warry Salitic Warry Salitic Warry		U. Dary combs	Dr. deny Toemba	Or. Frank Larch	Dr. Lebourite	Dr. Ken Kallmaner	
Ver, Cer (281) Ver,	Sale Rep	Manay Bakirk	Since Description			-	2000
Val. Call 1845 Val. Call			NICES AND AND AND AND AND AND AND AND AND AND	NOW PURPOSE	With George	Prooks Gilleto	Brocke Gillette
		Yes, Cutt 12615	Yes, CMP 17514	Ves CMP (2015)			
			i		163, 1487, 13136	788, CMP 13047	"05, CMP 13365
Commission Com		2725/2004	0023/F1/2	BAZ/2008			! ! ! !
Comparison Com		4725/2004	.D24/2003	700000	# T ME	8-5	4716720s
		47257204	47662004	200000	9029616	52:2004	6/2/200M
University Uni		800000	1		\$262004	SO3/2004	Succes.
Untroon Untroo		07/9/2847	NAME OF TAXABLE PARTY O	3212004	B/21/2004	671/2004	20020106
University Uni			S CONTROL	Unfertown	University	Charles	CONTRACT OF THE PARTY OF THE PA
Unknown Unknown Tile was the world but several between the world but several between the world but several between the world but several between the world but several between the world but several between the world but several between the world but several but the world but several but the world but several but the world but several but the world but several but the world but several but the world but several but the world but several but the world but the world but several but the world	ADMINISTRA STATE	Lhiron	Unknam	*	Pt mheio traction	a restricted	701000713
Untrover Universe Universe Universe Color of the Color of				Admitted Sam 2003 (p. journage			all and a second
Untravers (SPT) prompted the regord to use Chellege processes Ch	Observations	Income	Unforcem - This was trat event for	Servines during hospital stay			
Unknown Unknown Unknown 28 19 1 1 1 1 1 1 1 1			(16970) prorphod this report to us.	Ft had emorgener Lab. Chotegebottmy 2 weeks provide Nite Control of Miles		filter placed princip profile bypo-	
Unknown	PERSONAL PRINCIPLE CHARLES	Untroma	Grikasee			<u> </u>	
Unknown Unk					 	(halasan	
Unknown Unk			:		L	L	2
Unknown Unk					15.00	\$4 88 85	Unknown
Unknown Unknown Unknown Ware Cana Sinn Vera Cina Giem Unincent		Linterbers	Unknam	Yes	Unknown	- Introduction	5
Mode and great Vives they great Vives they great Vives they great Vives they great Vives they great Vives they great Vives they great Vives they great Vives they great Vives they great Vives they great Vives they great Vives they great Vives they great Vives they great Vives they great Vives they great vives they great they grea		4					£
Vieta care grant Vieta care		CHADDAN	Опетомя	Mone	Mon	None	Canada esta Canada
Hock and ween on K-say 1-Aum perpendicular to the save 1-Aum seem money up and down and the printing of the save 1-Aum seem money up and down and the printing of the save 1-Aum seem money up and down and the printing of the save 1-Aum seem money up and the printing of the save 1-Aum seem money up and the printing of the printing of the save 1-Aum seem money up and the printing of		Vena cava pram	Vena cana			; ;	
Hook not seen on K-ray Hook not seen on X-ray I-Aim perpendicular to the cave I-Aim Seen report Up and down in Unknown Cava when the principle of the cave I-Aim Seen report Up and the cave I-Aim Seen report Up and the cave I-Aim Seen report Up and the cave I-Aim Seen report Up and the cave I-Aim Seen report Up and the cave I-Aim Seen report Up and the cave I-Aim Seen report I I-Aim is firmly effectual to cave I Detached Amy was removed. On the cave I-Aim Seen on X-ray on Irag and soon I-Aim is firmly effectual to cave I Detached Amy was removed. Unknown Unknow	STATE OF THE STATE	8	6.3	CLUB PASS STATE OF THE PASS ST	Vera Cira Grea	Uninewa	Vena Cave Gran
Hook and seen on K-ray I - Avin perpendicular to the save T-latin seen and the interest of the interest on K-ray I - Avin perpendicular to the save T-latin seen memory I - Avin is firmly extend to cave a Detached Avin was removed in the on X-ray on X-ray on X-ray on X-ray in fight tang. Unenswin Unknown Unkn	Profession Contract	X			8		47
Hook ind even on K-ray Hook indiseers on X-ray I- Aim persendicular to the save T-Aim Same maning up bind day-rin. One missing hook from lag not televin One maning hook from lag on sold and the save Consent of the properties of the save of the save consent of the s	できる できる かんかん かいかい かんしゅう	: : : : : : : : : : : : : : : : : : : :			Yes		
One missing book from lag sot seen One musing book short leg sot seen 1: Amis family estacted to cove Detached from was removed in the Christian Indian seen Recovery Conte when the finance was content of the family of the content o		Modulation seen on K-ray	Hook not seen on X-48y		1-Arm seen making up and down in cava when the pliminaled and		1 Arm in eght middin lobe of tymo. 1
One missing book from lag set seer One maring book won leg and sound 1. Ann is firmly effected from were removed in the control of K-cay on K-cay o		 			actoloc		Arm Incation unknown
Approximation (1) Hook (1) Hoo	after diametersegnangen	One missing hock from lag not user	TOTH MISTIGHOOK YOU ING BOLSOM	1. Avm is firmly effected to cave	Detacted Arm was removed in the		1-Arm snaked and ramewed from
Unkinown		en Xeay	On Kray	LOSE Deficie tentals 1 prim was gone	Recordy Consulted the filter was		lang. 1- arm, location untendem
Unkerpown Unke					- Devocad		off no beapare series most operatories) .
Abyrmotomatic Asymptomatic Asymptomatic Asymptomatic Asymptomatic 4.72Azova 1024cout 4.27azova 5192004 512*2004 No No No No No 1) 3.5mm Hyork (7) Hoot (2) Ams No		Unknown	UMSTOWN	Unterpun	Change		
4724204	Patient Calcons	Aperbabaic					
478/2004 (2) 2004 (2)			A COLUMN TO THE PARTY OF THE PA	Asymptomatic	Asymetometo	Arymotomaic	Filter removed on 6/23 by Or. Proving
(1) 3 Graz Hook (7) Hook (8) Ams		478/2004	:D24200	427204	9192004	\$12 (200H	- CONTRACTOR
(1) 3 Grat Hook (1) Hook (2) Ams	September 1 Action of the Control of	2		★	VAN.		
	「大きなななない」。 こくこうしん こうしゅう	1) 3.6mm Hock	(1) Hool	(2) Jones		S2	# X

: 1/1/2025		Recovery Fil	Recovery Filter Detached Limbs - Patient Comparison Metric	mparison Matric		7
CONTRACTOR OF THE PROPERTY OF THE PARTY OF T	1 5		CONFIDENTAL			3
		3	***************************************	*		**
		4782	12248	1267		
		₹		-		
	MdCoy Dee+lospins	Medical Callage of Onc	Marcy Canada Hose	Mary and a second secon		
	Coden Lin			TO THE AREA CAN AREA CO.	Contribute a possion	Senta Clare Medical Center
		CHO COMMAND	Muskegon M	Savarras, CA	Nowerk DE	San Jose, CA
	Pr. Peut Sorrenz	Cr. Kurvier Hyggy	Dr David Karffran	Er. Jery Cohn	Ut. Mark Garda	
Color Page	Ben Heygood	Mile Trace				C HOUSES
	Yes, Cleb 13280.	:	A COLOR OF THE COL	ONE OF THE PROPERTY OF THE PRO	Scott Hugher	Nicki George
	Semple address 1 sem & 1 house	28	£	₽	Yes, CMP 13464	Yes CMP 13500
	FPCS	The Table	and and	10000000		
	P00269	6/17/2004	601003	2002/70	May-D4	2.4
200000000000000000000000000000000000000	HOZZSO	647/2004	FO.000	#002/120	P002/06/9	17/2/2004
	7/8/2004	7657	Name of the last o		K/30/2004	7714/2004
	Untrown	Unforces	Unional	TOWNS	1/262004	3/11/2004
- The Indiana	Proprietie	Proventi		THE PROPERTY OF THE PARTY OF TH	Chinon	Ursnown
		:	Display of the state of the sta	Achicongulants compinedicates	PE post pairie surgery	Prophyladic
Director, Manager	Trauma Pt. (Methoral Tombota) freedures, Falve Freedure	Estimiwas in a mater vehido accident Multyse injurie	²⁴ , hod gastric bypass eurgary after film pleusened in Agr., 2000	Gi Beeding	PI evenioxamed during Young	Post Sorret Cord bjury
PARTICIPAL STATE	7,	2				
ではなっているとうないの 一番の一個などのでは、	1 L			Unknown	7	Herman
The state of the s			L	Untrown		111111111111111111111111111111111111111
	SN SN	Driedown	#150	Linkinowa	Uningern	Interest
Marie Programm	Ē	Yes	*	bg Bighey enguldest, tem	Choop, Filter stated at Contrast	. Income
	·			batow left renaf.	Hotp PA	
	erest.	None	Nane	Chost Pains "umstated to arm	\$08, Persed out, careine	:
Dispridence magaing	Vene Cava Gran			HIS TORKO	parioación	
Contract of the Contract of th	243		COLUMN CARL	5	Cardiac Calh (Chys.) X-ray	Câra Grem
	19),	***************************************	8	181	56	8
		(6)	, Aes	ř	98	**
	- Am Embodded in cove wall, Zon showelfter filter	perahel to cave valifiest prior to	2. Ams bent upwards, and fillow was slightly filter caudally	1 Arrs in Right vertices	1-Am read bartzeud meir	1-teg soon on X-ray, filted at a 30 degree angle, filter was not tilter.
	t- Am Embedded in cana wall. 2cm shows the Riter.	2. Arns in the pathonary chartelon	1- Am defeabled and removes with: Unaudesstudither loss employed the Shee. 1-am embedded in vens i removalion 630 1- am remains in cass, below the remain	Unaucosatulifilar sociem) renovalion 6/00 1- bro remens in rt. Ventricia		Detection aim suggesty remoted. All imbo removed with 6 for in teat from heart prior to pertameneus. (then between
	Unknown	Undrow	Unincern, but "on upper limits of normal"	Unknown	Uninown	Unknyen
The second second	Asymptomatic	Pateri is enymptemetic no Meding, no prodimias	Asymiphomatic	Cindragy of check pains unknown. PL is tamently fine.	Nec coen heart surgery on 6/30 to newsery to the many tensor. It hours tensor the Mile Mile of the with tentowed with	Asymptometric
	6/8/2C04	\$17.020H	5/21/2004	Unauccessful namoval, menaira	alfourly TANORA	PODZ:12
	¥5,	No.		DOT TOTAL		
	(1) Ann. (1) Hook	(2) Avris	(1) Astr	FINE (1) A	8	: : : : : : : : : : : : : : : : : : :
					CMT	144094

11/1/2005		Recovery Filter	Recovery Filter Detached Units - PAtient Comparisor Matrix Constitution	mpañsor Matrix		40f13
Section Control of the Control of th	3		CONTROL ME	1		
Contraction of the Contraction o		4	5	2	23	. 72
	Name of the last o	1499	19650	12627	2336	2126
	3	~	**	- 6	m	
	West Alls Memories Hospital	Uniterally Contractly Hospital	OCH Regional Madrual Carter	Marking Colera ad Openia	Ontained Market Market	
	West all a second				- Carrier (1977)	projection in the description
			intellegia, Al.	Augusta CA	Camille PA	Chueland OH
Physician	Or. Pethr Drawner	D: Kally VintEpps. (R. Brenza) iNto, Serdis: Surgeon	Or. Byron Spend	Dr. 8lp Setes identified the fraction His perfor implement the flaction	D. Jerres Ciness	Dr Astern Blum
	TimProyer	John Buckey	Rab Willenson	Metana Vitasa	Ser, Cata	Manager Community
States retained	Yes, Chr? 13615	No, Catlent's spouse relatived the		<u> </u>	Edward resistance	2
	: : : : : : : : : : : : : : : : : : :	PIA REIOTEO		?	Control de la co	
	Wer Car	_	27172004	AQ-CM	2/16/2004	Market
	7/13/2004	8/10/2008	8/24/2005	92//ZIC4	9722034	South .
A STATE OF THE STA	1/15/2004	6/16/2008	B750004	927/CE04	9722004	a/00/08
	8/11/2004	XXXXXX	M23/08	20,000	(00/200	SOCIAL
	Unknown	Urknawn	UNINOWA	UNINOWIL	OFINSATZ	Latrocks
PRE-PRICES.	Expending doctor did not know	Undrawn	Proprietable prior to tune surgery	\$	Prophyladic provile enhapede	1
Other Pl. Alberty	Urencer. The explanting dector do not implant the flee	Filter was explanted on ESAGA Pathes restmed to the hospital August 10 with blood of the potroedum, and e wire in the hours.	Motor Vehich accuted nutiple	C Section 5 months ago. Resumed to hopp at its Aug. with ervisible certical CA, and blooded uniters insertion of but high-reatomy ludge.	Crantel Traute	TV0 by qc l0V1
RAMBORAL M. T. T. T. T. T. SPERME	Urknown] 			:	
	Unknower			5	-	Unanam
	Information	· · · · · · · · · · · · · · · · · · ·			¥;	Uhenswi
		The state of the s	Gokrawn	University	Uningwn	Unvision
	Unergan. Filter placed by exerter cooper	<u>6</u>	Unierowa	Pt. Indialst vices of time of pacement. Fater had to be placed.	*0*	Yes, Placed tem below lowest ning?
		<u>.</u>		above contrate		
	Altha	Syrange	None	Nere Dist rations	Norm filer related	Urknown
	Clava Oram	t	Geo Oven	5	Cara Gran	English Control
	5	N.	¥	[22]		
	Yes	ž	£	***		Yes
Lateralder of Family Series places:	14 og sven et X-ay bolen 1/3 way coen shah	2 3 unlength of wise with 9 30 degree band seen to the heart	Not seen	1- Detected layer bory variables	Sighty Med fiter with detached	Filter was 4 cm below ngth driven
Lineage of the State Control	20 of leg remains embodded in care well	Unterowa	F- midding book from leg not seen on X-ray	i- missing hook form leg act soon. Fither remains imployed, 3-Legin.	Filter remains implamed, 1. Demotos am in cava wall neut to finer	1- Detection hands not found
Chel Bas	Пислемп	Unigode	Unknown	Univional	Uninow	Grienawa
Polinichemina	Asymptonetic	Perateneous famous unespossibil. Steme-buny performed 810/04 to remove 5th Table* wire.	Asymptomatic	Asymptomatic, Drain and inform pri-	fir involvation manages (than the asymptotics)	
	1113/2004	1000765	80A2004	Remains engletted	Remains Implanted	agmy,
The state of the s	##/.	Yes	15. Tax		18,	Note
	242 CM	None	(1) Hock	Filter, (1) Detected leg	Fitter (1) Attn	(1) Hook

11/1/2005		Recovery Fat	Recovery Etter Delected Limbs - Patkent Comparison Matrix Commissions	barison Matrix		6 0/13
Description () The rest of	92	**		ŀ		
COMPLEX No.	2496	222		S	£	9.
Complete Category		-		24914	2003	222
						•
A STATE OF THE PROPERTY OF THE PARTY OF THE	PORTE ALMORITED PROPERTY	Unin. CA st Cards	Of Josephia Hoppital	Graffed Teaching Yospial	Harford Hospital	Unversity of Complete Manager
Appendix address	Demor. CO	Portomorto, CA	Therest, Ft.	Shaffare UK	TO POPULATION OF	
Presiden	Of Domer Yes					
		5	Dr. Gen Steribo	Traver Cleveland	O. Seminique Zambuto	Dr. Mark Sonds
Series Field	Ben Kaygood	Asson Watch	John Buckey	Damen Berlow	Zack Houce	Whe Guero
Design Charge	,ê	<u>\$</u>		, s		
					2	ew.
	MONZALA/	Jan-04	L6 months prior to event	Chicam	BV11200	and and a
	PO6Z/11/E	NCC2/02/6	108000	1977-2006	10/22/2004	TVC-MONOTO TO
	800577PB	130200A	10,11,004	NOOS TOT	1000/2001	100000000000000000000000000000000000000
U.C. C.C. SPERMENT	10.142304	10/25/2004	200	11/15/2004	1138604	POOL CONTRACT
	Urknown	SOUTHER	Untercown	Unidipari	ACHERO CO	1020000
Philipsepos	-76	Pothybode, Treume Pt.	Prophylocie	Prophylectic for an orthopedic	Risk of DVT due to enterche van	Dist of Miles
					יייין איניאלאייין ווייין געפאאיייי	
Chairet Mahay	Know Bugany	Pt. vas in abdocinal restranța white in the lessories	Lyse of alec cot	Hetay of DVT and PE	File: placed when pt. war 9 months pregnert. Pending 7 deginal delivery or 0.5-order.	Vagiral betwey Post File- placement
W. Law Software at States				:		
	MASH	\$	2	Unknown	16	·····································
THE PERSON NAMED IN COLUMN NAM		4			b .	
		LAND TO THE TOTAL THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TOT	The control of the co	Cabrown	- 65 lbg	Unicipality
	7.61	, Kes	7455	Per	infra-Rena placement	Pipead below the Rings
	New .	Cheed Pakins	- Mone	No.	2	Neno
	Certe Oran	5	- to	Cove Class	Chan create T	2
The state of the s		3	4-8 Months	Undergoal	2	
	##.	2			S#5	
Countries of Participal Supplemental	Aper of Fitter tilled and Nanty Apelos cave well	£	1 arm could not be seen on CT in . Arm poming copressing paradetro	Arm poming copylated, particular	Cera gran needto filter	1. Searches arm in cave well near
			1- Am metatra i contract de		2 Speation missing house	N
	1- Detached hook not found	Am moved suggestly from hear	noved surgically from heart; plates the arm could not be seen on miles precent than	Al peraremoved	"highest Leaton-carb variable	1- Detached onto it cave was near the filter. Filter remema, majested
	Uhknown	Unterson		(worky)	- Independ	
		 			:	-
	o participated by	Adymptomatic	Asymptonetic	F.76	Asymptomatic	Agruptomotic
	4027/1/2	Remains inparted	300K2004	TOPPZECA	Remays replanted	Remark supplement
	, ta	Yes	200	100	Ver	, , , , , , , , , , , , , , , , , , ,
Kenned Spiriter	(1) HOCK	Filter metture (1) Arm	(1) Arm	None	(I) Leg. (1) Hook	Fitter, (1) Octobed Am

Control Cont							3
New Green Fegure	OR BELLEVILLE OF THE PARTY.		60	3.0			
Part Part		iki			7	¥.	95
Marco General Hopfield Control of Contro	2 10 12 1 C			20204	30657	- SALT	34.7
Part Service Part				≺			- C1000
Chief Card Control Card Contro	THE COUNTY OF TH	Mass General Hogers	Waston Megagal Cargar	Mary Condition			D
Dic Entropy Dic Entropy	THE PERSON NAMED IN	NA STATE OF THE PARTY OF THE PA	1		(A & A)	Quactered Clinks	Univ. Modical Cortor
Control Cont			AGO, NV	Boston, MA	Philadelah w. P.A.	Closelane Gi	
		24 F4838			?		200 M
Month			TO THE MELECON	Ur. Stephen Witcher	Jenney Solomen	& develop Chromed	
100 100	See Peo	Keyin Haylam					The state of the s
100 100				Buth work first	Hugh Messa	M log Guzze	EVRO HENA
Unknown		•	763	2	,		
10000000 10000000 10000000 100000000					Ē.	£	, You
1000000 11000000 11000000 11000000 11000000 11000000 11000000 11000000 11000000 11000000 11000000 11000000 11000000 11000000 110000000 110000000 110000000 110000000 110000000 110000000 110000000 110000000 110000000 110000000 110000000 110000000 110000000 1100000000		Unknown					
1/10/2000 1/10/2004 1/10		10/28/2004		200000		10%22004	2719/2004
11/19/2004 11/2004 11/20/2004 11/20/	Date Physical Street	10/20/2004	ļ	No.		12/1/2004	2012/2008
Unition		1100000		12/s/2008	12/15/2004	12/22/2004	53478363
This was present in a now bit out of Transa bit liver and Sween in ICO Palve Surgery prints the Unknown Unknown	A STATE OF THE PERSON OF THE P		11/25/2008	1,5,2003	1/12/2005	HOUCH NY	200
File was poosed in a nose at out of frauta to Liver and Sevan in ICU Polve Signary prior to the Course Unknown Files from the Course of the Co		Legisland Company	CFOC3585	\$	Cabacasa		SOCIAL BOOK IN
Frite was please in a hose tal out of the place and Several in ICO Polus Suppoy prior to fine Universary Linerann Liner		CHORAGO	Prophylaci (- Treuma	A A A A A			Judge Charles
Title was please in a rose to cut of the placement of the placement of districtions are particular to the placement of the pl							Tracen p
Literacen Ed Literacen Uniscorn	Other Pt. Hanson	Filter was pleased in a hospital out of slate. On distribution was reciped	Traves lo Liver and Spream In ICU				
University 145 bs University Univers		Pation.			(According)	Undonown	Unknown
University Factor Factor University Factor University Factor University Factor University Factor Factor University Factor Fact	The Part of Street, Square, Sq	Unisteen	15				
University 145 bs University Univers		Unitrowa		MAKEMI	(Manager)	85	CASCASSO
Universe Universe		Faceo			Chilleson	 -	:2
None None None None None None None Nere None None Nere Nere Cara gran Gran Gran Gran Gran Gran Gran Gran G		38		Urkrawn	Livolatio	D-MORAL D	Cascally
None None None None None None None None		Cherron Carlo	ראניוטאלע	drivowe	5	149	Unknown Placed at another
None None None None None None None None		100		ī		2	Pospie
Consider Consider		No.	Nore	None	- Fra		
Unknown Unknown E2	SAN THE SECOND S	Ceva Gram	Cava gen				
The control of the co	COLUMN TO THE PARTY OF THE PART	Lichtown		5:	Ceve grow	Cave gram	Cava prom
1. Described files (1. Described on the consistency of the constraint of the constra	TOTAL BURNEY	- F		morano -	Lithoen	28	
1- Detected the file: Geo., glacked for care wall for the process. 1- Detected Am in Left Pulmorary Care, glacked for care well for the process. 1- Detected Am in Left Pulmorary Care, glacked for care well for the process. 1- Detected Am in Left Pulmorary Care, glacked for care well for the process. 1- Detected Am in Left Pulmorary Care, glacked for care well for the care well for the process. 1- Detected Am in Left Pulmorary Care, glacked for care well for the care well the care well for the care well for the care well for the care well for the care well			1. Detached some and	DOL	.		
1. Detected Am in Left Pulmorusy (2014) and an included of the Same as above Additional attracted 2004. Filter successfully (2014) and an included an included an included of the successfully (2014) and (Oreness the filter	GRVD, Glachest to cave wall mour tro	Delicated tog in the residence of the	FOBlached amminitie filter apex	Ven to filter in the capital	Helichen
Attery (20v), effected to cave well near the learner as booke Acoulous influence (20v). Filter escreently received (20v) filter escreently received (20v) with 1 filtering attracted (20v) with 1 filtering attracted (20v). Administration (20v) filtering attracted (20v) filtering attracted (20v). Administration (20v) filtering (20v) filtering (20v). Administration (20v). Administration	Control of the Control	1- Detected Am in Left Pulmenan	1. Driezher emousios of the			CONTROL HONDON	
Unknown Normal Unknown Unknown Unknown Asymptomic Asymptomic Contently the Unknown Unknown Asymptomic 10/24/2004 19/12/2004 Remains inpained 12/2/2005 12/12/2004 11/2/2004 13/12/2004 12/12/2004 15/12/2004		Atery	COVII, effected to cave well near the	Description of the control of the co	-	Datastrad arm and Mortemoryd Hentemiseng	1.; Detroked Linb was removed wit shore uffer Filterways errows:
Asymptomic Asymptomic Contently the Unknown Asymptom Asymptom Asymptom (1923-2004 11/1/2001 Remains impained 17/1/2004 12/1/2004 12/1/2004 17/1/20	direction.	Unknown		Unfarour	- Internation		:
10/29/2004 11/1/2004 Remains impained 971/2005 12/1/2004 Nov Vis No Vis No Vis No Vis Vis Vis Vis Vis Vis Vis Vis Vis Vis	Patentitions	Asymotomatic	Armplantic	Curterally Sina	Unkachun	Andmorance	- Tunknown
177,2004 Renains meano 172,2005 177,7004 177,200	Par September	7000000			···		or Burney of the Control of the Cont
			BOS/N/T	Remarks impained	372/2005	12002171151	PROZEZIA.
			APR	ź	2		

This state of the interior of the interior of the state of the interior of th					
State Stat	5				
Si Joseph's Merch Hose.		 	4	4511	
St Joseph Mercy Hosp. St Joseph Mercy Hosp. St Joseph Mercy Hosp. St Joseph Mercy Hosp. St Joseph Mercy Hosp.	:	33340	7006	4465	3
Si Jasapiri Marcy Hosp. Si Jasapiri Marcy Hosp. Si Jasapiri Marcy Hosp. Si Jasapiri Marchy Hosp. Photenia AZ.	•	D			\$ 10 mm
Michael Sercel Project Control Con				· ! 1	<
Michael Bordbau Main Hestern Principle A2	- !	Deficiella Medical Carrier	St Rub's Med Canter	Advocate Chair Med Ca	2
Michael Saroa Philip Levees		Personal RA	100000000000000000000000000000000000000		DESCRIPTION OF THE PROPERTY OF
190 190			Find Collo	Oak Lever, I.	Orcago II.
100 100		Kernin McDonnell	Party Property	7	
190 190					Day Front
Feb.04	! 	Zach House	Jennier Keenst	Tim Manage	
Feb. 04	****	!	1		School Street
1207/2004 1207		g Z	şê Ž	S.	2
1227/2004 1272/2004 1472	£25,200x	10000000			
12277.004 14720-5 17210-605 17210-	12/23/2004	1000	MONTH I	6025204	Untrown
Linktown O'Diverses Trauma Brain Turner, Hyperelection, Chanis Sty. 197 187 18 Coult grain Court g	14205	DESCRIPTION OF THE PROPERTY OF	10 Mary 1	1/252000	University
Unistean Brain Tures, Hyperdension, Chanis, 1975 199 lbs February	200000	COCONE	1/20/2026	1792005	SORGEO.
Linktown Brain Turce, Mycelection, Chanis Tourned White State (The control of the control of t	CONTRACTOR	101/208	284005	2/23/2005	2000
Unistant Brain Turner, Hyperelection, Chanisis answythm dipolog 197 197 188 1		Charana	GFORI 579	CANCEL CONTROL	
Linktown Thys St St St St St St St St St S	LAG	Bilteral Pulmonery Embot	Rocument PC	Prophylactra	Wilder of the Control
Tigoliss 199 liss Uotasan U	Betin Times Mercadameter Press		<u> </u> 		
Manual Ma	Culcula marchana	Unknown	Of stated in fall the file was in the same of the same	On striked he follow filter was in the Gastro Bytass surgen. Despirate:	JANGARAM
199 lbs (Intercent Universell Name State filter in the Name State filter in the Name State filter in the Name State filter in the Name State filter in the Name State filter in the Name Color intercent attracts in the Name Color intercent attracts in the Name Color intercent attracts in the Name Color intercent attracts in the Name Color intercent in the Name Color intercent in the Name Color intercent in the Name Color intercent in the Name Color intercent in the Name Color i	†**				
199 lbs Unknown Unknown Unknown Unknown Unknown Unknown Unknown Unknown Unknown Social grain Social gr		£		.0	
Unknown Unknow	-	2		! u. ::::::::::::::::::::::::::::::::::::	Wednesd
Unknown Lister Report Low grain All companions were nother files (name street files encount) Low from the files (name of the report) All companions were nother files (name of the result) All companions were nother files (name of the result) All companions were nother files (name of the result) All companions were nother files (name of the result) All companions of the files (name of the result) All companions of the files (name of the result) All companions of the files (name of the result) All companions of the files (name of the result) All companions of the files (name of the result) All companions of the files (name of the result) All companions of the files (name of the result) All companions of the files (name of the result) All companions of the files (name of the result) All companions of the result (name of the result) All companions	Unchange	Unkeepen	Type British	Modicin Chase 250 Inc	- Constitution
Abornosi Paire and filter and area filter and area filter and area filter and area filter and area filter and area filter and area filter and area filter and area filter are the filter area filter are the filter area filter are the filter area filter area filter are the filter area filter area filter are the filter area filter a	- meanann	C + -			
Abdomna' Parks since filter serviced (case grain (case		7 7	No.	5	Unknewn
All compensation of the grain of the grain of the second of the second of the grain of the second of the grain of the second of the grain of the second of the grain of the second of the grain of the second of the grain of the second of the grain of the second of the grain of the second of the grain of the second of the grain of the second of the grain of the second of the grain of the second of the grain of the second of the grain of the second of the grain of the second of the grain of the second of the grain of the gr	Abdomnat Paints aince fifter replant (name since fifter services)		Ched bed	Chfer Dally Mechanic Maniton	·
All compensativements after 1-Am february nerts filter in the price to recovaril entering 1-Am sets cover cover cover cover 1-Am sets cover 1-	CEL CALL			Delition of the property of the control of	
Abjourpercent were anthe files 1.4m letached, next to file in the proot to memoral entrang versions and control file in the letter in the proot to memoral entrange in the letter in the	i	Table date	ti	Ohost X ray	Carpona O
All compensation were nothing filter. 1-Arm feltachned, must to filter in the price to memorial entrang. 1-Arm selection, moral to filter in the shall feltach for the filter in the shall selected, moral to filter in the shall selected. 1-Arm in the shall selected. 1-Arm in the shall selected. 1-Arm in the shall selected. 1-Arm in the shall selected. 1-Arm in the shall selected s	Z Z	75	;	253	Unitraum
Asymptomatic Universed Service Control of the contr		Total Control of the		55	, e
1 - Am séachea, mart in the fine a training a vera com 1 - Am inthe fine a training a la Am inthe fine a training a la Ammirenaire Uniquem (Uniquem (1227/2364) (1227/2364)	WITH COLUMN CANAGE AND THE TAIL IN	well Fitter Ned migrated Acts	Filton and monated to the right	· Am in Right Lung. Herrational	Am toladedans navin d.
Maymatenatic Untaram Asymatenatic Untaram 1227/2304 144	1- Am selected, next to filter in the versions 1- Am in the king?	1- Usy Removed with Snare	Unknown focation of Mace		LAum detectors and now unit.
Asymitenatic Unionam 12/27/2504 (2220:0004	MAGOX			Adores a Paris formando	month rolls of hing Filter namains implement
Abymotematic Univasive: 1227/2304 1227/2304 1227/2304 122/2004	Unknown	Linkypowa	14.7 mm at impaint, 28.7mm on		
HOCHESTS: HOCKLESTS NO.	Unionam	Augmatomatic	Patienthad open hear surgary to mmove the filter. Asymptomatic	5977	Language of the state of the st
No No	10000000		Mark Tember A.		
OF The second se		Powerder august	Yes, 1/21/2005	At a newsy	Remains inclamed
(2) post	OF	None	₽		
(4) ATTS, (1) NOCK	Col ANTS, (1) NOCK	Filer robrus (1) Leg	(1) Hock	1	River HV Daysday A

The second secon			CONFIDENTIAL			21.00
	201	1				
	1381	SAMA		*	•	**
				32166	37715	15.2
			×	•		
	Correst Command Alexand	Christiana Hospital	Reading Hospital	EVANSEDA HOSEMAN		
	Men York, New York	Nesary, Debestora	Bonding 54		Production in the second	Cornell On Medical Catego
			To Change	Everygod II.	Margado, Fi	Now York, NY
	Davi Tos	Late Greek	Robert Guey	Frank Seconds	Wieles Indian	
	Berry Broggy	Ter Cometo				Send Feed
				Doug Klushan	Spirit Series	Barry Broom
	2	₽	92	,		
THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TW	A CONTRACTOR OF THE PROPERTY O				Ē	No, retreins mplanted
	WC527	1	100272004	89,2004	Tevision	7000 400
Defe Payorist is cont.	- September	2/1/2/10	2/14/7035	2714200\$	- Smaras	TOTAL STATE OF THE
HINE COLUMN TO THE PARTY OF THE	3,000,000	2002/6/2	20%/2008	2/18/2006	20000000	Sept 2004
	SMEAN	747005	314/2003	M Sons	10,000	W112355
	Uafokum	CFOF0545	07KN2854	GFOCASEO		9252003
	PE	8	Mophysaik	Pitytio Koho Sugary	2	
Marie Committee			 			
Annual Value	ปกราชภา	Hip Francis	Unfunçacı	Excellent ConditionFootball player	Getting Bypass Surpory	Carcer, DVT, PE, prior retravable fiber inspired and removed avecembly (details unknown)
PL Age of These or Design				-		
		5	3 7		9	:
TAN-TIME	Independent		u	**		₹ •
			Mixthidly Obeste 379 ibs	Linkspan	The state of the s	
	Yes	You	Litticrosen	¥		Regarder
					Ē	CHORNON
	None	Univalent	Untorona	250	: :	
September Inches	Carri gram	Cewa crea			•	CPTSCPORT
THE PERSON NAMED IN		2		Cevagnam	Cavegrain	, , , , , , , , , , , , , , , , , , ,
A STORES OF STREET	say			9	'n	99
The state of the s				£	Yes	
	Table 1/200 Som tooke the filler	2-Avent in Right Versnich	1-Arm in the throught valid.	12 of a log in cour well, next to	1-Activity Portionary Assary	1-for in Right Assum
Complete of Chen. State & Landson	Parroves on 1/2505	2-Acrts in Right Verticola, Silber remains intolerated	I - Am In the cave well, I - Am in the triculated valve	172 of 8 leg in cove well	1—thm in Pumonary Arlany	1-Arm in sight arrium. Filter romains
798	tkm	Less (han 20mm	1460171		!	
	Asymptonetic	Unionam	Urknown	Asymptonetic		- Chroman
THE RESERVE	2782016	Usuccestul removal, renains				i Mariana Ma Mariana Mariana Mariana Mariana Mariana Mariana Mariana Ma Ma Mariana Mariana Ma Mariana Ma Ma Ma Ma Ma Ma Ma Ma Ma Ma Ma Ma Ma
	- Control of the cont	inglamoc	2014/2005	2782005	10:02006	Members implanted
THE PARTY OF THE P	200	No	Pripring		***	
	Ē		i		_	

			recovery Fit	Aecovery Fitter Detached Limbs - Pakent Comparison Matrix CONSIDENTIAL	perison Matrix		E 100
Tripple Current property March Tripple Current property Tripple Cur	A STATE OF THE PARTY OF THE PAR	**	5	701117011100			
Triggle Course, 1999 1999		10 to		• ! - - -	24		
Trigogia Current Limitors Mary Hales Seneral France Anna Carestian France		6679	4443	2027		211111111111111111111111111111111111111	
Control of Control o		4	_			A4571	. 44.614
Directivity Principles Prin	いのでは、大きのでは、大きのでは、大きのでは、大きのでは、大きのでは、大きのでは、大きのでは、大きのでは、大きのでは、大きのでは、大きのでは、大きのでは、大きのでは、大きのでは、大きのでは、大きのでは、			•	•		
District of Party 10, 10 District of Party 1		TOTAL CHARGE CHARGE	Month Media System	The state of the s			
Dit Marke Fancous Dit Sammers Dit Adm Generation Dit Constitution Dit Marke Fancous Dit Marke		Created Back No. 7			Pill Camily Monoria: Hospite	Partiend Momorial Hospital	- North Fulks Breezest treatest
Di Marie Fancourd Di Samtons Di Adam Gerenstum Di Orice Spraes	A STATE OF THE PROPERTY OF THE		Art years	Dobos, At			
Contributed December Decemb		1100				DAILINE, THE	Postore GA
1 1 1 1 1 1 1 1 1 1		LP. MARTIN FISHODOUR	Dr. Samtons	D: Adam Greentein			
No cervice implicited No c	の対応のではある。				1 and 5	Dr. Ange Loper	Dr. Deyk Dydd
10 10 10 10 10 10 10 10	No. of the last of	Cros fier profile	Hoph Napse	THE LEGISLAND		. i	•
10 10 10 10 10 10 10 10					Francis Hotoria	Brocks Gallege	250 EB
		2	\$	1			
STATIONS STATIONS			!	Delitalidas estados con	£		
### Appropriate ### Appropri		6/10/2014	7000000				
Colored Colo	A MANAGEMENT OF THE PARTY OF TH	2000	12/23/2008	Feb 2005	4837W4		·
1-270-1005 1-2		CMANAGE	302020	4562004	10.2000		sons sunt
		3000000	MADY/OD!	1	CONSTRUCTOR	Unimown	V12/20C3
Pubmown pileons of the first of the pubmons of the first of the first of the pubmons of the first of		4021/2005	RD/Is art and an experience	THE PERSON NAMED IN COLUMN 1	4727705	\$7:2005	20400000
Polymour prices of recording Under the Polymour Under the Under	The state of the s	GEORGIA:	CONTRACTOR OF THE PROPERTY OF	4411/2005	\$20200\$	Second	
	100 CO 100 CO 100 CO	DO North Co.	<u> </u> -	Captings	CAFORNIAN		2007.000
Victorial Vict		The section of the se				Ultramin	Urbutown
More other fine Potyments		International Control	i		Muliah treates from MVA	Unicown	Prognancy, DVT
Mone other from Potyments				3			!
Unicom U		Agne other than Potymerms	Unknown	Autrations pictings and cathers	Untercent	Untrown	Patherit gave birth during indwell
1-17th of the space of the state of the st							Coupa
University Ves	Party of The Officers	22	96			!	
Unicom Unicom Unicom Unicom 140 tes 6.50° Yea Yea		ž		`	8	Untimosem	Topicosia !
Unicoun Unicoun Unicoun Ves Yes Yes		ואישטעות	- Experience		- L	Urbnown	
Unitrosa Unitrosa Unitrosa Ves V				De Jenos	Nome	Chebraight act moraldy obese	(Second)
1-Limb in Lorg accessfully 1-Am in right purintment errors in the separation of the		Unicom	Linksrepart	8	į		
Universe Universe					F 35	7 8 5	Ę
1-Link in Ling accounting the united puriously entry 1-Arm in recall vain, 1-Arm in like: Unknown costion 1-Arm in recall vain, 1-Arm in like: 1-Link in like:		Unional	Pare de la			:	
1-1 mb in Larg and 1-4 mb in right puritorary errory 1-4 mb in rectance 1-4 mb in rectance 1-4 mb in Larg account 1-4 mb in Large account 1-4 mb i				HCN .	Asymptochere	Uningwa	Separation
1-1 1-1		ea huse and b	£	Cherakter			
1-Line separating from the usen 1-Am in regit puritizing array 7-Am in read vein; 1-Am in lies. Unknown Unknown coalism flat continued Unknown Unknown Line owners inclined 1-Am in lies. 1-Look, unknown coalism flat continued 1-Am in right puritizing entry 1-Am in read vein; 1-Am in lies. 1-Look, unknown coalism flat common inclined 1-Am in right puritizing entry 1-Am in right puritizing entry 1-Am in right puritizing entry 1-Am in right puritizing vein; 1-Am in lies. 1-Look, unknown coalism flat coalism inclined 1-Am in right puritizing entry 1-Am in lies.		7.2	6		Yes	L. L.	Dava-green
1-Line in Line and accounting the users 1-Am in right puritorary arany 3-Am in rend vein, 1-Am in files Univolve Univolve Only ordinary arany 1-Am in right puritorary errory 1-Am in rend vein, 1-Am in files ordinary arany 1-Am in right puritorary errory 1-Am in right puritorary 1-Am			Yes	3	D/E	Untrown	R
1-time in target accessfully 1-time in the continued 1-time in the continued 1-time in target accessfully 1-time in the continued 1-time		- Allen and an analysis of the last		! 		University	£,
1-tim in larg, successfully 1-family right pulmonary entry 1-family residual indec. 1-took, unincomn ocellan retinance 1-tim in right pulmonary entry 1-family residual indec. 1-took, unincomn ocellan University 1-family residual index 1-tim right pulmonary 1-tim r	3304	IBAOUBL	1-Am in right purmentary array	: 3-Am in renal vein, 1-4-m in lias	Unknown		
1-Lim in Larg account life to the control of the control of the Co				<u> </u>			Sawinationed to condiver
University University University University Same	in #Thithflesthemore	1-Limb in larg. successfully retrieved		1-Arta in renal vain, 1-Jum in liec, filter constant implembed	1-Foot, unimo-m acatien	Multiple (4) detections filter months of the	1-Arm retrioved will spare
Mathematic Mat	Carren		; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	ļ	:	-	
Asymptometric Annotometric Asymptometric Asy		LANGE COLOR	Linkman	ryonden	* 2807	Unhown	
32.42605 V327005 Romeins replaced 4/722005 Yes Yes (1) Am File B (2) Described Ams (1) Leave		Asymptonetic	Asymptometric	Asymptomento	Astrophate	Andreases	:
							Atymicamenic
Nors (1) Am Filer B (2) Detected Ams (1) Nors		4 AVENTAGE	VENTOR	Romains texting	4727005	Filtre restrained and \$4*372005	
(1) Arm Files 8 (2) Detected Arms (1) Nove	Control of the second s			25.		 	
		: EMEI	(1) Am	Filer B (2) Detached Arms	1	200	***

11/1/2005		Recovery Filte	Recovery Filter Detached Linbs - Patient Comparison Matrix	npanison Matrix		
Detechinent Listerich	92		CONFIDENTAL			
Contract to	TATAL	8 1	6	2	87	
			TOPEN.	The state of the s		8
						48055
	Gestriger Nedcal Canter	Tri City Mecoral Cantar Foot				m
	** :		THE COURT NEWSCORE HOSDIES	Reading Moscolei & Medicar Certain	ñ	Sicker Bossell
	C. Similar	AO BARTERO OF	Company No. No.	Resident PA	The state of the s	
	more in the second of the seco					CO-PART CO
		Or Justin Gooding	Dr. Carl Charg	Or. Repend Dusque, Jr.	Total Management	; ;
	ATT NAME	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			100 A 60 Page 14	D. Xen Drug
		account all y	Britt Hickory	Robert (Yes) Comden	Total Panagata	
					1	Sen Haydood
			2	£	9	å
	11/28/2004				!	2
こうでは、このでは、一般のでは、一般のでは、これでは、これでは、一般の	CINCIPAL	200	Sect 2004	1022005	100000	
	COLUMN TO THE PARTY OF THE PART	671/2005	6/10/2005	SMADONS	T	SC-ADW
10000000000000000000000000000000000000	6/12(D)	6/1/2005	e/10/2007s	100000000000000000000000000000000000000		8/16/2005
	\$/29/2005	6/26/2008	200000	SONOMINE	E174:	\$71572006
	Unbown	- Information		7.022005	7770003	1/13/2006
	Trauma requirme muRicio		incoming - ""	Character		650 6340
	Officpedo surgeres	\$	Prophylochenic and trauma	A TOTAL STREET AND ASSESSMENT TOTAL PROPERTY.		
Oller Pt. Hansay	Untrown	Sank evenyery partient		:		
				- EAST-ROY		PE DV7 & htradienier hemorrage
	2	24	7.7	- - - - - - - - - - - - - 	+	: : : : : : : : : : : : : : : : : : : :
		u		+	·!·	£
	Zejegeti	120 03/ 55	Avenge	306.056		
Month Designation	1	5				- Deposit
	i		# A		Aces (1) left renet	Carpina
	Agricometic	Syspense & chest pain	Uhimeun	Ashar ptomostic	Control of the Contro	
The state of the s	18					ė.or
		1.0		Yes	200	
	\$			ឆ្ន	2	Unknown
			E	**************************************	, sa,	
	-Am attached to essal val	Right vertice	Usknown	1-Am Smr. captinise of Ittler apex	1.Acti & nghi bukmanany van	
	!	Fivernment fordered from			region, 1-Arm sear right elmun	
	William Water Company	removed wis open twent away	oral Chichen whereabours	Palmenary artery	Sema	Filty Pameirs for anied
Cretter	tabout la muti				į	
A CONTRACTOR OF THE CONTRACTOR		University	Unimoun	(Microsoft	Untrown	
Patient Concessor	Asymptometic	Sobe & recovering	Unknown	Asymptometro	Asyrodonate	Unferson
	&11200S	Ramaina implanted	GHOZOES	- 300CF159		
	5,				\$00-7-104	Primary Implaned
	(1) Ams	Ficetimena (1) Arm			, ves	
			EAST IT TO CONTRACT (7)	(1) Am	(2) Ams	(2) Ams - Cova Wa)

Detections (Physics)						
	*					
	812			3	45	
		21923	11427	5455	644.05	3
The second secon					CO176	52748
	Wethorfel Hospitzu	Total Capacitic				
			St. Want's Hospital	N Kentes City Memoral Hogolet .	St Vincent Hoppital	St Vicentia Di Alexande
	Targanga, TL	Canada	Bue Corings, NO	N. Kanson City, MO.		7
	- Introduction	1 1 1			and the second s	
	i i i i i i i i i i i i i i i i i i i	Ar Hob Bearing	. Dr. Oave Burtharr	Dr. Seark	Or Zerrebr	
Cales from	Pott of the County					יין ישטע חומבטון
		The state of the s	David Forbes	Dawd Forber	Tmfigher	Paris Branch
	P	2	2			
				- Mo	ş	Ž
が できる こうしゅう こう こうしゅう こうしゅう こう こうしゅう こう	1/32005	8780				;
	6/10/2005	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2000	37262004	Unimowen	This is a second
THE RESIDENCE OF THE PARTY OF T	\$00000		905500	UNICOM	7/15/2005	20000
Date and the second sec	acecyst.	CCENTRA	EZSPOCS	783008	7714/2005	2000
	PONZA C	1,82200	7/27/2005	797,2005		SDCZ/DL//
		University	GFOH2139	Cachan	2002000	Beigney
	Discrete	Undrawn	t to	1		CDCOTOJO
	 				University	Unknown
	i i i i i i i i i i i i i i i i i i i	:		- - - - - - -		
		Unique	Post Abdem nei Surgany	Small Ishael Dostrucion, Oegenerative Spinal Spurs	Uninom	Universe
The Party of Party and Party of Party o	-					
Control of the Contro		Unforces			; 	
		Unknown				Unkarawa
	Urknewn	Unknown	CO Des runs			Chichesen
	1			NO THE COLUMN	Chilhown	- Introduction
	CALLEND	Belower	Yes	3	40000	
				; ;	CO PURCONDI	Chichean
	Yore	Unierseuer	Nemp	No.74	- Landing	
	Updrown	÷	. 1			
	1		18 L			- Introduction
Company Property			8.	25.75	Uninger	-
		E	200	Yes	3	Marina Constitution
	Undrawn	Cave Wilst	Unknown	F63	Britished to File:	
Section of the South Particular	Urknown	Cava Was				
					Dédication économical de la company	Unknara
2000	thrown	Unterson				
		- ! 			- Leonard	Carbona
		OWNOON	Asymptomatic	Asymomete	. Asymptotic	Unknown
A CONTRACTOR OF THE CONTRACTOR	5/10/2005	50000076	Sogos	Universal	Demoire forcing	
	2				Den mid up to make	82342065
THE RESERVE THE PROPERTY OF THE PERSON OF TH	7 small places.	More	News and a second	103	Z	£

Colored Colo			Recovery Fit	Recovery Filter Defacted Limbs - Pattent Companson Mattix	жатыры Матт		ŗ
The control of the	のなるとのできる 一年の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の			CONFIDENTAL	i		Q.
			[\$	1013	**	
			trad.	List	2000		72
Protection Pro		4	· · · · · · · · · · · · · · · · · · ·			5078	53165
Description Description		MINOR S. Hamber Many of the Committee of			*		20
Principal Prin		Series Co.	Charles (C) Univ of Force Hosp		Phoceta Alexandra Hayora		ļ
Printy P		Hersyer, PA	Gabresytte, FL				
Particular Par		e e e	:		Workship (Arethrite	Boston, Ma.	Prefield, England
Product Prod		Pr. Family and	Dr. James Caridi	Dr. Sero			
Proof Proo		313			of details and value	Dr Operatri Rebain	Dr. P. Gelman
17,00000		KOROL CITAGOL	figures Mongari		Marinan and and a second		
100 100		1				LANGUE COLOR	Derren derros
1782-265 1782-265		Bupting	Penong	Yes	Pentin	: 	
170,000 170,	Carlo of Property Annual	2000					ş
Trighting Trig			May 35	7/2/2005	743500\$		
Pendage Particle		COOZAGO	726/2005	7077008	200000	CIRCLE CONTROL	November 2004
Production Production Process		20282X0	*COCCTCO*	7.08006		U-MOLIATIO	5002/91/2
Committee Comm		Pending	Pending	100000	00000	M252005	W16/2005
Produced the caste eygass Traume Produced the genetic passes for the caste eygass Traume Produced the genetic passes from the caste eygass Traume Produced the genetic passes for the caste for the ca		Livinowa	litterant	DOWNER	Percent		
Deed, through bistory of PEE University of genic Copysion (Copysion University University 1988)		S. C.		GPPCIALL	\$600H19	TWORKING .	05003977
Desir, temy history circle Desir, temy history circle Desir, temy history circle Desir, temy history circle Desir, temporal De		Section Section in Section Section 1	*rauma	Prophytectically for gashic cypess	ñ	Programs	University
Obses, lamy history of PE Uniquent Uni		20-0-6					
Control Cont	Other Parkman	Obest, femty history of PE	Unknown	94	DVT, PE, ontitoogulints used (maristra), liver begray perfectived post. Itser placement	DVT&PE	Unknown
University	To the Public of Court		i				
University Uni			Ì		202	A	Unitrowa
University			ļ		University		Urknown
Transmission Underword U					a salar	Unanown	Unknown
Mans Unistrum Un		CHANGE	Unknown	¥.	**	Yes Subra rena	
Vol. Tibe Not pairs, shortness of breath Prints from this pay Asymptometry Vol. Tibe Not metal pairs, shortness of the Not metal pairs Vol. Tibe Not Metal pairs V							<u>ē</u>
Total Electron Tota		202	Underson	Check pains, showners of breezh	Pitrady front Roser bingsty	Asymhometic	i i
Unitorial Unitorial Unitorial Vist & Compilate Investigation Vist & Compilate Investigati			! 	Yest Files had mirrare	;		
Retroprished Caric Unknown Past & complaint investigation Vest Past	The Cartes of th			The second secon	Year	90,	Unknow
Retroprisoned Carit University Prizassid valve in the hear negated to Tree registration and the registration and t	The second of the second]	Į	The As contribute investigation	, ,≘ ,∮	Appen 210	Approx 274
Retropritored Carit Unknown tribuspievable indexed points to share and the burst of				Control of the National States	198	Tee, at removal interest	Yes, or symbyel
Retroperitoriasi Caniti Universiar mitinovin Local Anous to strate end if liter of dot burden injersed to terrore they, frequencing & end of the folia of the found of the folia of the fol		Kartiyerkorea Caver	Unionava	Micusold valve, fracture found post	Uningwij	Fibor myseled lo rough, 1 pm 3936290 perforend care well &	Unknewn
Uniform Uniform 22-25mm 24mm 22-15mm 24mm 24mm 22mm 24mm 22mm 24mm 22mm 24mm 22mm 22	And of Lambard of Parties	Retoperionsel Cavity	Untercom	unknover, took 4 hours, to snare and remove Meer, independing Sterm may have becomed during this time.	Filter of dot burden nigrated to Sport. All autopey, 1 fam found Anthroposition in visiting weal		
Appropriate	Create State of the Unform	Unknown			:	;	
Asymptomatic Asymptomatic Asymptomatic Death (Asymptomatic Death (Death (10 death)) 7729-2005 7			i		Z4:1M	< 23mm	Un'mown
7/29-2015 7/29-2015 7/29-2015 7/29-2015 7/29-2015 7/29-2015 7/29-2015 7/29 7/29 7/29 7/29 7/29 7/29 7/29 7/29	Property Company	Asymptometic	Augmptematic	Asymptomatic	Oseth	Asymptomate filter lited & unable to be personed delected arm remains in their	CHARACA
(1) Limb Retroentional Carry (1) Ann retained in pr (1) Lag & hook, kozston coherenn sun.		7/29-2005	2728/2005	Transes	A subpay, 7/31/2005	My reference and reference	
(1) Unit Retroeditoreal Cerrity (1) Are retained in pr (1) Legis hook location criterown		₽.	2				900000
		(1) Umb Retroentonesi Centy	į į	(1) Lea & book foreston consumer	E64.	***	Urknava

		Recovery Filter	Recovery Filter Departed Limbs - Patient Compenson Marx. Consideration	penson Matrix		
STATE OF THE PROPERTY OF THE P	2					5
		[*	ř		
	B	56264	Abbek		!	
	<		50400	58F7	6000	
の対象が大学を発展の関係を対象がある。			•	:		65039
	Emort Universey Hospies	Roadin towning & band of				-
1000年の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の		Miner Programme of March Country of	FIT COUNTY Momorial Mospiles	St Lufe's Madical Canter	House, by a fitting and a second	ĺ
Academic Committee Committ	WINTER CA	Reading Sa			THE PROPERTY AND ADDRESS OF THE PARTY AND ADDR	Table 1 Sheet of the page 1 and 1
	!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!		N The land of the	Withaniese, Uti	Ototto di	
	D. Elich Charled					E LUSTIN THE
		Dr. Richarl Quay	C. Christopher Thorpes			
	147	 		Seed Debay	Dr. Robert Andrews	D. Commissions
	CERT III	Robert Clear Counces		. !!		
			The state of the s	Textober	Ochnis Harrs	
	Yor	5			·	THE PROPERTY OF THE PARTY OF TH
	ĺ	?	Unknown	Spikerowan	Control to the same to the sam	_
	(Second		· - : : : : : : : : : : : : : : : : : :		MATCH - POSITION HOOF WHEEK	No.
2000年1000年1000年100日 - 1000年100日 - 1000日 - 100		2017/102	12722203			ij
Company of the Compan	0.40,000	3/25/2/005		The state of the s	Apr. 200	Beerle
	6/16/2005	POROTOR		64337005	9282005	ALEXADACE.
	 		20000	97242005	attack of	
	Uniform					2000083
				- Interest		į
	Unicosu	Description of			CONTRACT	Umrawn
			Chromer	DVT PE	Non-Hodoko keminana	
				· · · · · · · · · · · · · · · · · · ·		Substantial in the second
	Unknown	Anticophysical bases are seen as a second				
		Tool Labor.	CEDICAL	Datemen	Non-Nodgkn Amorena	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
					•	-
			-			
	Descent			!! !!!!!		
Company of the Compan	Christian	<u></u>	111	a:	Bokagan	and Capel
	Unknown	8 -1000	- Contraction	-		Carrier I
			Chicheren	Unknown	- Physical Company	HARDING!
	11890	Yac				Lieute and
			SUSKINGSAC.	Yes	Chinoma	1
						BUNDAN
	University	E.S.	-			
			CHRONICAL CO.	Abdomine dimension	Asumeticitation	1
	Yat	Yes				Caled News)
	Lets than 1 year		L CONTROL OF THE CONT	Undown		
	Undercen		Chrysten	38	Annual Annual Control	<u> </u>
ではない。		THE COUNTY OF TH	Uniotown	**		The Control of the Co
TO THE PARTY OF TH	Unicovo - 4 arm of filler dellar ban					No
		- President particular in the president	University	Care or regal vain		THE PROPERTY OF THE PARTY OF TH
	:		!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!		a division publicately extery	יייייייייייייייייייייייייייייייייייייי
Contract Contract Services	1 1 1 2	Limb and some on article office.				. :
		AND COLOR	Untrown	Filter not command		I believe and the first transfer to
					A Birth and morely aftery	Colmonos Stary 1 with a sure
	Culoses			:		
			האסיניליל	Untrown	Curcown	:
Patest Colleges	1] 		
		Asymptomate	described from filter	Oby mystaki i by detached han	Asymptomate	University of the temperature of a repeated
	8078,0005	R082035	Unknown			W Dra Vertour & Keudman
	2	Jahanes	: :::::::::::::::::::::::::::::::::::::	Ž	Filter temovad SROODS	Philippen
	(4) Arms, (1) Hook	(11 Arr. location reference	Children	Unknown	New Year	1 1 1 1 1 1 1 1
		Charles of the contract of the	Unitrown	Unionam	(2) Ams	E-Manual I

긡
三
불
8

Magnetich (Anneally Con learths Ancean	Septial Access Process British		Macovery Fitter Magnat CO	Recovery Fiter Monation - Petent Companison Matrix CONFIDENTIAL			1919
		-	,,				,
Account GRA, State Physician Sabre Rep Date of Event New Majorited to Brits Date sittle Superfeet to Brits Date sittle Rep Key Ton MAJUSE MPR Rep Key Ton Majorite Republication			MOSTFORM	510312000H	Ктермоги	****	
Account GIN, State Physician Sales Rip Entrol Event als Event Reported to Brid Date sitch Superfice Tox Maudig MPR Rox Key Lox No. U.C. No. Evenpla Resurves?	Toranto Genera	Nicting Hoppial Libertus	Univ Homitator Olevaleral	North Manufacture Comme			
Physician Sales Rop Entro of Event Alle Event Reported to Brite Date sitch Salemited Tox Maldig MPR Rot Key Lot No. Event Returned?	Committee Cambrida	Postdru PA	Charles Ot	The state of the s	BOLON LINEAU SAND FORD	Specific Meath	Rockord Markerial Pospital
Sees Rope Date of Court Mite Evert Reponded to Britis Date sittic Suprimited Ton Maurice Mide Rev Key Lot Ma	Untercoun	Pent View, U.C.	Untrode	Chimoteel Her Un	MIGHT FL	Candidapide M	Roombra II.
Date of Event. Date Street, Reported to Britis Date Street, Reported to Britis Date Street, Reported to Britis Lot No. Matter, Mark Rev. Lot No. Eventual Resturated?		THE PART BOOK			Application 1975	Car element, ME	Er Patralo Coposco
Data MICK Supported to Birch Data MICK Supported FOA MAINE MICK Supported Seempla Personned?	WZZ/ZX00	10477000	11,20,2003	Party Canada	Parish MecDoness	Davis Bourbeau	Andy Drose
Date attrictionment of FDA MAURE MDR Roc Key TOR No. Serveton Reserved?	W22/200	104772023	11/20/2003	12/4/2007	HEADY	And 3/2004 (see clearly card)	1
FOR MAUDE MOR Rox Key Lor No. Semple Returned?	Pror to STOLE	HOUTE TON TOUR	444	Comments &	Page 272/2004	HOCKET WHENCH	4262004
Esemple Portured?					Burt 3/9/2024	Bard 5/12/2004	Bard 507 1000s
Sample Returned?	Criticoval	Uncontinued, GIDMORG (34 unit) or		ZZONAK	TOPAN	3000	211028
Titlery by divisition	- SE	N (National (Association)	2	Calonaria	97CNJ278,286cmts	KN,195	CANAZERS, 41 units
	Unknown	ä	Acute PE	Massive retroperional blead for priticaguatos Antongueri had to be segged	Pre-Boardoopic (INTC bycass Surgary	* %	Ne
Other Pt. Hilbory.	Unknown	Lithrown	O Diending, Anticogramm.	1	Mobic Cookly, Observative Steps Aprilla, Athel Flouriscon, CVI	Sub anadminismemornage	Unkown
Pt. Age at Thre of Every	: : } :	University	Untrown	. Q	And the second of the second o		
1.1.10 人に人質を除った。			Umroun	3		a ·	Changer
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Unbrown	Liversown	Cirkmown	Unknown	24 009		2
Normal Placement?	Unknown	Uncasa	Unkrawn	See Data Siza dargebelo-	, , , , , , , , , , , , , , , , , , ,	, , , , , , , , , , , , , , , , , , ,	- Yet
Paul Implant Synthesis	Asymptomate	Chat Paint	Lukman	SOB, Lightnester	Patient 'palant' out' and codes who a Bik	Mone of record	Ukpo respisatory district, PE
D'actiontic Inspired	Frontsland Bagist ogtal Suttention maging	à	CI. Card gram	5	Wanta-Gran	Process gan, positiva	
Days to Movement Decumented	1	1	Unation			2	- F
Woned In? T1151	-12 690 space, one bry 81 and of rend lien	Tatalia abore the legal from dechalled to abore hardness	Cauda ettt, aperex, 2sm	No regit abili junction	Rgh Arlun	Right worthers, per Or Businer, filter Turkened Bis positive.	den exphaled, wettifter activities
CeraSina	Urbowe	Chenger	15.16mm	12mm attmosed (hypovolemic) 24mh after rapid filid rapteoneria	"Just befow 2 mm."	Aspropriativy states at parametric 20-25mm at time of	##C2
BL-7	Large anound of trambus within the train.	Large dolin liter past mplant.	Unkrown	Targes a meutit of cost of the pulmotory arrested, the renal water NC, and so selby the entel water Large of a poet with the filter.	1'x 6' dot with the first	Por Dr. Banzers veud nbewration ofti was formed afterriters. No training hoors done on cost.	Smel amount of boun liber
Political Designation of the Control	Tokeandremows wes, without developing my press or ebdoming pay.	34 44 5	Unacown	Surgical from tolerable zoney of NC, rold attur. Mannel purrowery enteries Forstop course overnestable no intrasperable controlled Procedure tolerand units	Death on 272:004	Death-Altagobi. Research Death-Altagobi. Research Ober place for DAT olsogiet by Unembro and register beleast Gausing cardet numer.	RNF shows Grener mer plead vs juguarrada.
Filias Removed	This removed per request of safett on day 16	Still Imperied to of 12/1/03	Unfacen	Filter rumaved under CP bypera, new filter successfully placed.	Fiber semowed at a doppy	Filter removed at autogray	Removed on 4/28/04
/Bris	22	Chilona gram (B. Cr. Kaufmas)	Ves		£	Digital (neges of this were likely)	Not Repeated to Gord

BPV-17-01-00035631

20/1/2008		:	Recovery Fixer Mgms CC	Recovery Fitter Mgratton - Patent Companion Matrix CONFIDENTIAL	×		248
Although more and			*	=	1,6		
COMPANIAN	##	10623	4071B	11492	1253		
Atemor	Raystoria Mandeau Camer	Janbury Hospita	Fundst Memorial Mespatal	Spading Redonal Hospital	St Louis University Hespital		
Charkle-	Springs KA	Dankon, cT	September 1	Comp. Ch	Off sinot 18	Personal Indian	A Meccal Ceraer
Date Date	CHOMPS HISTORY NO.	CM THANKS AND	Les V. Norts, MD	CY, FEMER	E 6	A Panette	S di di
Detections	7	Zach House	Jeson Green	Bill Cleary	Each Tardeber (no sec)		to comment of the com
Data Event Remoded to Aven	1	2022/2027	1002/36/9	602004	TO THE PARTY OF TH	Tody Capazzo	Mise Ceorge
Date Mark Actions	-	MOSTAL STATES		CBCCCM	M32004	ACTACANA TO THE PARTY OF THE PA	7713200
Detterance when were	28	100/579	Badonsk	Berd 77/2004	Husping of 502004 Berg		E0024-1
FOR MACIOE MOR RPA Key	- -	21130		2883	7742034	MODEL A DIES	Bard 955720
LANG	OYOBITI 44 GHB	Urtown	Grobbest As may	The second	是以此人。————————————————————————————————————	#Z885	23,62,61
Sarrole Raturad?	2		2	- CINCEPAN	: Undersom	University	Infantal 1
Filter welfcatton	Hetery DVT, pro-verfeed gastra bypass suriery	Heary 3V. pro-verted gathz: Poeli approcepting gaths bipole bypate sulfary sulfary sulfary the to Gives the	Posesty	YQB427TE BBITH-ET	Seven heat thurs how troke	No Pre-gent/Chypess anglery	eN
Other Pt. History	Mothid obests, brambochapena, sandors, ashma, right bende 89	B. Mothe obeith, history of DVT	Works throat				
P. Agent Time of France	Montenation			and the state of t	CREDICONS	Wester Constitution	Unknown
244	8 4	;	2	Q	R	8	Chromody
W	#400p	420 05		4			*
				CARIORAN	220 lbs	Писти	Unknown
		*** 	Y	Yes, #12-8	Ten pass incident - title in mis gen, legs open 1. commerce: determined	Countried measured one implant Post depleyment Coult you not taken.	.
Post Implier Symptoms	Vauses, Vorking, Chestify these 'V' seven days	Valses, Vorking, Chestigy haves. Abdominal pair, chest pain right. V. several days.	fire weets after august Careloged nauses, much compag. IVT, thornbose reng- velts.	7 Cays post incident. Abs Part. Smalling lags	Supple carties areas on Middle	1 Left shoulder & codomna pain	Asymptomethy
Disputation Investing	Chest X-ray	៦	55	XUB, Cava grad	Chest X-ray prior to death stowed	d Light of showed fiber at Lighted	Vena double de la la la la la la la la la la la la la
Days to intrinseeint Documenter	26	0	62		*		
Moved to?	Notice the Property only, but he interest of external		The state of the s		9		\$
	Ambedded in reyonal Arth	TO O' MORE IN DICAMPIN MANY	of 28-30mm	7.12	Ryth vestrials	β O	Franco temb
Cave With	AP 18mm; Transverse, just under 25mm.	18mm at floor phoseneet, 21mm. After event	23mm	123aa	Me assume	Denassen by	Urkoowa
Clot	Large arrount of an eggy dol covered the cive:	No significant in State Person had be.	"Dolwffin, eround and Dil Kolod" the Med	Zem x 4cm det within the filter	Missibe andolifican ight fences	Wasture embos from right femore: Country to logge not of cooperation to contract the first same the trientification was seen on Cf.	Patent magned to have routes ferrous! Optiound in the Fine could not be removed
Publish Curreme	Dearn Serzook		Pruna modely teft and with tubus to the ER. P. was on dispessionant migration. As of SETARs I Jum west to PE.	Pita camenty doug wel. Thrombinolysis to being contitioned due to persibe devel occusion	Deeth on \$20,004	Telians was an Hapanir Oseany. The films from the main of the particular of the part	Patient ratuced buts herapy. Guither Tuts was slaced above the floorent her. Patent was filed
Pitter Removed	Filter nemoved et autgray	Recovery Elderwas removed vol. Jupater approach thru somm Pleash on SERSOA Geometric mer pages.	Fire could not be senting of the could not be moved due to dot on top of the Rice. Appropriate the Rice. Appropriate to be on the Rice and the second of the second the second to the second the second to the second the second to the second the second to the second the second to the second the second to the second the second to the seco	Filter could not be removed due to dot. Tripitate pleased via jugister Approach an labori Recovery there	At bulansy	Remained instanted	Pertaned motated
Labora	BARO DUO ARIA KAMPAN IN ANDREAS	C. Carporter bet and property					

11/1/2002			Recovery Fitter Migrati	Recovery Fiter Nigration - Perient Companion Matrix ConFIDENTIAL.	ix		9 6 9
Migration (Mortatily	*			#	2/40	1	
Companient	450	4994	18006	13468	1446	21278	
Arcourt	Jethon Porchise Medical Carter	ŝ	Central Depays Fospital, II	Restricte Medical Center, NJ	South Jersey Housial	- Introduction of the contract	
THE WINDS	Nagles 13	AKON OH	Winfed, IL	Red Brag N	Secondar 1.		
Frysician	Dr. Asta Argerte	Or Densit Fined	C. Angelo Martered	Or Shah / Or Mice Rayson	ESPA A	E0 15 15 2	Mission Hall, Ct.
20 20 20 20 20 20 20 20 20 20 20 20 20 2	Mat Wadring	Michael Guzze	Barbara Terestrar	Life Street ver		The state of the s	Or. Greg Peranty
Deta Event Recoded to Barel	1	704/2001	1000/29	rootes,a	100 Carlo	Method Glezzo	Ama Kirg
Care U.S. Schander		HOSON POPULAR	8/10/2004	EV139004	M23/2004	MO2/20	STANDARD CO.
FOR MALITY WAS BUT VILL	š		ō	Bard 29/2004	MAN SAME	Bard 10n (200)	PANTA PANTA
Let Min		281363	369675	520.74	ORSA.	1 2/2	
Ramaly Deferrance	Circuss	GOE2224, 43 UNB	Lindows	Unfetown	manum	Unknym	
	[\$	9	ON .	, Mar	YIX
Filterfeeffeetion	Pro-Literate bypans surgery	K	DAT.	Prodriede pranto a drandony	Previous control operate Depart surgery	No.	V-Automa
Other Pt. Hatery	Marted obresky	Achiles fersion turrer, DV?	Filter places 2 veets effer a D-Sector	Drain terrar, pt. had econistany 2 days pod implant	Death consumed 3 works port to.	Heroy or twr	Unkows
F. Age et Time of Event	2	₽	18				, ,
X A	*	2			···	Uncown	CWO-SA-T
		297.Br	Linkrown	With your order perior	450 84	3 Jeffrons	5 S
Northist Placement	Carla not respond pre-moint Equipment produced poor Valutization. No post deployment Zone grain.	Please et 414, confered by fires	Aptr of litter betweeners was Contition of large upon designment frittely reported "Netted" law reported "Antroem"	Unknown		Yes, 1 on belov livest ensiven Frite of not non-6 frincelassiy	Filte dq not noen e immeluse mignies to right bullhoweny and
Post lamplerit Eyraptems	Unkneam	Coupring, lectycaede, syenolis, decreased Of subreton	brandately interpret to the Heart upon determent	"Light back pain," PE, etc. in the	Max ash	Christophia	Nona
Disprosite inagino	C-am usedin surpery	Public character	Vera Core Green	10			
Days to Movement Documented	Dayorbban						Caracha
	 			re Days	Apples 1 month	3 months	During Implant provodure
29 Post	Right verticie	Roal of pulmonary unary	Plyth venticle	o to 8 an exercity, just below ngni. Marin	Hoppiti vena catva arto:	4 on balow tyfit attun	Rght pointsouty artery
Ce-a-Obs	30.5nm post-inglan	Calculated at 15.8mm	Zhim	16mm of implied, 25.27mm at explain		Unknown	
50	Nore	4" in tengiti chessi to the filter, "ua". d'arredo	Nova	University	Left recal ven thrombosis, lete dre"	Unknaw	Reported servicing.
Patient Cutrome	Parient bangorind by set to horsplat it Memories, Dr. Zen percusbondourly removed the Res-from the hear.	Doa'th 7724.0004	Removal with zone unacconstitute Filler armood to the sudpictorion vision Removals implement. A Buder Neur Filler with implement	Filter removed on 8.1 July at Brighter thospital	Ceath Bristagus	Unkrism	Translate files pleads after the filtering fire was sugged a entraced. Palent was free
Filips Retrieved	<u>F</u>	2	2	2		Ves, 10% 2004	

Ţ	ž		Recovery Files Morali CO	Recovery Filter Mgration - Patent Comparison Matrix CONFIDENTIAL	.28		4 90
-	- 28 /1		A	2818	,		
4	Mark.	14244	2,444	346	TO THE REAL PROPERTY AND THE PERTY AND THE P		B
-1	Temple University Hospital	Mary Tradesday, redward	Colombia Predaylensa Hoopial	Lauribe Hotokar	S Grand Branch		Jacon Jacon
+	Philadelia Da	Newton, MS	New York NY	ļ		Alabam Albaman adlam	JOHNSON CAN PROCESSICEMEN
Ť	D. Lombors	27. Holdenbard, 4	Dr. Jenathon Susman	St. AME Argusta	Che Lander Bridge	Di Cara Cohen Paradasist	Demostration TX
7	Huch Aleces	Boogsvan	Bery Bronz	AND STATE OF THE PROPERTY OF T	Car Louis 2015	Ð	Cy Upses Bedora:
1	- NACONA	10/10/2014	10/25/2004	48000 Lt.	CONTRACTOR OF THE PARTY OF THE	Hugh Mages	TomManas
Date MDR Submitted	Hospital Soluzion	;	10252004	19/17/2004	17200	1260000	1200000
Ť			Bard 11/22/2004	B410 12/18/04	800 12/20/2004	Particology	
Ť.		- Setting		22031	563960	- Cincha	SCCSWBALL BRIDGE
Ŧ	- III	GFOE1487, 43 unts	65-04-0605	UTPROMI	Transfer of the second	71070	
1	Na	2	2			Gronosti 43 drills	rweary)
-	Propriylatic prior to repersoors. gentricitypess surpro-	Proprofession to a Applications:	 K	Prochybecie prior to open govers	Prophilectof rauma	Dykowa a trounturior	92
	Mortid shorth; disbesse, hipperfession, obstructing steed abrete, conflorespectry	Houry of DVI. Pt. Appendicate	Of population	Versus marmons, leg eveny,	With the state, premions,	Hyperbrasion, portel ena vaucuno	Hittory A Watering DE
r-		4				CONTRACTOR DATABLES.	L MICONIA A
+		4	1		3:	18	&
1	345 lbg	Unforman	Linkersone	World-ly obdite	a colon	≥ [
	3	*68, bytow renal;	Yes, below renates	*	Yes, below the renals	Yes, et L2, prost rena van	Undown
· -	Pt had complications of GB processors (feats, coverages herustonals dot at access site.)	Abdominal patru, shorthelis of breath	Nora	Nema	Back pain		4038
	10	Chris grank	CAN'S prom	· · · · · · · · · · · · · · · · · · ·	· ;		
Days to Movement Documented	25					음 문 ::	ե <u> </u> - -
╁~	1		·	P	#2	= :	\$6
- 	Right votendo	22	Toin Aga amun Mgs in care	Rehi Vensios	Supra-renal	Verlight	Zon cephaled Fater price above for the tegs below one is
	22mm	20mm	Not measured at impligit		ZBan	Chro. ot implent, Some several	Predoctorrent 23. Prim.
<u> </u>	Picture stored did Redthe shert. 4 had 4 kmp ter	"Filst was n.d of con"	Linkrown	Smell amount in the Mar, 1 cm r. 20om in pulmoneny vasculanure	Large errount of dos seen in the NE below the mode	Urterown	Start on 1/2/05 100m in filer
<u> </u>	Patient inde-ferrand a PE and 1, batterind on strategies.	Transferrad to New England Medical Content for assessment Fibri removal abovin UNBOCHASTA	Untrown	Design or 11/1504	Find	Death on 1'725-2004	
	, , , , , , , , , , , , , , , , , , ,	2	Tree, 102,904	 ₽	Yes, 11/2004	Unimen/bulbery performed	Remains inplanted
	No			7		-	

1. 2.			ASSESSMENT OF STREET, THE STRE	J				4.05/7/2005	MACHANIA MACHANIA	00000	Constant)	8	r caroran byosus surpary. Open heart surpey, as bompetis	est Memory	B B	*	Western Value	Uhiresas		***	93	N'SH (0		Heren in purhame, anery		\$\$	
	,		Name Hardway Mayora Language Commence of the C	W. P. LEWISCHOOL AND AND AND AND AND AND AND AND AND AND	Or Core JON Wayers	Por Land	ededs regular	3/2 m7805	ParetAmbus		GFDG-4(RO 37 DEIS	Yes				Uranown	Unicetta	Unerowa		Organia	t.	Caught in caval temosh, detail to not cavilin		Urknown	Filer Buccosstoy (Berowed	***	
ă	#	404m	New Handware Macrosoft Security		The Charlesian	CALL CARL ANGINGIA	AND PARTY AND THE PARTY AND TH	321/200\$	Bind 4/15/05		Unknowe	Unknown	Unknown		Urghown	- Capadali	Опетан	Unterson			780	Filter to in right atrium	Unknown		Pired surpery to remove (the,	/es	
Recovery Files Magraton - Patert Companison Mattx CONFIDENTIAL	a	3	St. Ria's Matical Center	5 65	Dr. Perrent Providets	The state of the s	\$120,5005	1/20/2005	Band 2/B/36	81276	6FDE1573, 34 unite	PAS Returned PE. enforageteuts ware not effective whose	Unibour		8	TAVARIBLE BUILD	.	Chestpan	i t	;	128	Rightation	14. Thin stimple n. 28. from when Rangemed.	42722320	P. Ind coor loant surpery to refrove fibre. Brids had bites please paraceterscape, Palean was fine.	Removed on 1/2:105, 1 nook,	7
Recovery Fiter Manat	i.	5,005	Lata Fores Haspital	Land Fores, IL	Dr. David Kostor	Does Karthan	1/17/2008	1/18/2005	Band 1/31/05	**************************************	CFCFCSM B. S. S.	Recurrent DVT in appared	Litherown	12		230 bs	7¢	Pals, leg sweffing			5 [Carr, atoms right matel, just better the hope to the color.	18лап	Shal amoust	100 H	Date of the second of the seco	
	3	ZWYK	Develops Hospital	Ballence WA	Dr. Mark Flenker	Kathlean Spelger	10/2/08	1M4X001	Dary 25005	2480	- Chichena	KVA TRUSTIO, IDVI	Developed divel trentecial bioecolitic-tenenal (N7.27 days after the reference		 2	Urimown	No. Mer had to be placed at L3 con left respilyon	Pronbosts of eff arai with	5			Son from L3 to L1, absure the contraction of the co	Paul than 3cm	First and case cot burdened	Placed on Highwrith, Battern 1988.	Ž	
ļ	R	2000	Rentative Maddon Conter		<u>8</u>	-	100000		3867 571 280 5	Oliverson 97 and	AN AN	Menta pulmonary embolism	Jahenesen	15	ŀ	TURNOPHU	Yes alto-2	Nort	Cows gara	24	: :	Acm la T 12	Jinangen	Sheart .	i	Removalatemptied, nevertaed by found perthrating cave wan Leg with removed, figuranialsed httpsented	- 2
11/11/2005	(Legislation 14)	· Inches	Krithin	ACCOUNT CATY SUID	Turket Lang	Contract Hon	Dath Event Reported to Runs	Date 1879 Submittee	FDA MALEYS MOS Pro Key	Let No.	Semple Restumed?	Filler Indication	Other Pf. History	Pr. Age at Time of Event	¥ \$		Normal Phenoment?	Peri Implant Symjacone	Charter de Inspira	Days to Movement Documented		Microsoft for	Circo de la	10	Pristed Dutos	1	The second second

Addity Addity Addity Dubling TX Dublin	Servin an Nordok Carearia Harpital (Servin an Nordok Carearia Harpital (Anterior Carearia Harpital (Anterior Carearia) (Anteri	Series Series AST	Marian Austrian Horses Marian Austrian Britishes Moreon Berry Moreon Moreo	44764 Lord Sce. Wedted Certor Aboquescy, Nit D. Robert Milk Dr. Lus Centre Grant Centre Grant Since Sce. Since Sco. Since	ALTER STREET SEA DESCRIPTION OF COMPANY OF C	
Partitud Memorial Hespital Digital TX Digital Epoel Brocke (ditter Brocke (ditter Jimeroum Uniconn	Alberton Chemical Hope Sulface Comments Hope Sulface Chemical Hope Sulface Sul	Section Average Averag	Acida Micos of acida		A1000 Caps Grandess & created in Caps Grandess & created in Caps Grandess in Caps Grandess in Caps Grandess in Caps Grandess in Caps Grandess in Caps Grandess in Caps Caps Caps Caps Caps Caps Caps Caps	
Paratitival Memorial Heapter Digital TX Digital TX St. John Loped Brocke Citette Brocke Citette Jintrone Unknown	Anna San San San San San San San San San	Soviers Austria Comment Hergitary Soviers Libra Peerks Soviers Comment Mis Traylor, Dr.T Traylor, Dr.T Mis Mis Mis Mis Mis Mis Mis Mis Mis Mis	Acida Massagu	, ! !!!!! !	Lape Grantes & Activity & City Grantes & Activity & City Grantes & Activity &	
Sr. Joge Loped Sr. Joge Loped Sr. Joge Loped Sr. Joge Loped Sr. Joge Loped Unknown Unknown Unknown Unknown Unknown Unknown Unknown Unknown Unknown Unknown Unknown	Febr. Lisseth Caco -(thin Fizare) Suiscool Listone Unknown Ns Ns Sort Sort Sort Femass	Or. Marsha A. Fogel John Pleabal Shistopics Shistopics Shistopics Shistopics Shistopics Traylor, D/T Traylor, D/T My M	Carlo Carlo	- !	Cape Grantes & Burger; Cirk Cirko Grantes & BO D. Colem Johnson Freshins Sriving Sriving Sriving Preplyteds phoment or opercompart gaster space	Washingtor Hosepate Washingtor Hosepate Washington Di Dr. Richal Jackson School School Control No No No No No No No No No No No No No
Brocke (Siette Brocke (Siette Sard SO) 165 Bard SO) 165 Bard SO) 165 Contractor Universal Vies Vies Vies Vies Worded Stom (No meng is	Sylectronic Caco John Pizzeni Literani Literani Ms Ns	Dr. Wasta A. Forget John Pleabal Sylikologi Sylikologi Sylikologi Usharawa Usharawa Usharawa Usharawa Na Na Na Na Na Na Na Na Na N	Cr Clitch Tating In Lorge House In Modern Tating In Lorge House In Modern Tating In Lorge Education In Modern In Little Control In Modern In Little Control	!	Choo Granteet, 40 Di Catem Johnson Tim Heinten Tim Heinten Striation Striation Striation C-0.2711 : 31 Lett	Washington D. D. Richert Carp. Kinda Jackon Solvigos CO27005 CO27005 I Minoran No.
Brocke Gitette Brot 571/65 Brot 571/65 Brot 571/65 Comment of the comment of	Subacos Linkowa Linkowa Sor Sor Sor Sor Sor Sor Sor Sor Sor Sor	John Pressel SHEADOO SHEADOO Useanna Useanna No Treams, DAT Treams, DAT W. K. K.	Fourthers Horse Crop Fight Crop F		Dr. Cottem.Johnson Tim Hemen Tim Hemen Series2005 Series2005 Series2005 Perplyhedis pisomment for cipercocopy, Quish c sypros	Dr Rathers Cary Kindin Jackon Schigoto CO2005 CO2005 IMMoses No No
Sand SCILING Jinktown Unforcen	Linkrown Linkrown Linkrown Dyr Syr Syr Shr Unkrown Femagi	Sylectock Sylect	Microsoft (CDS) E126005 S1146005 UMegawn Inflessigations for 20 take prior or a series of take prior or a series or a series of take prior or a series of take prior or a series or	Carta Helocit Merazosi STRECCIOS CERCOSIOS NO Merazosio Cancos, DV3	STREATES STREATES STREATES STREATES COLUMNICS OFFICIAL 33 LIVE N N N N N N N N N N N N N N N N N N N	Keele Janeon 251,000 067700 1 Mercae No
Serd SOTINGS Serd SOTINGS Unforcem Unforcem Ves Ves Ves Unforcem Unf	Linkrown Linkrown Na Na Soft Soft Unknown Femasel	Contended to Management (Management (Manag	Sildenos Wilesoam Limberoum Politica	9162005 9162005 GFPC5904 090	STRATICS STRATICS STRATICS COLUMN (S. 1972) Preplyleds promitted or special formation for special processing to the special formation for special for special formation for special formation for special formation for special formation for special formation for special formation for special formation for special formation for special formation for special formation for special formation for special formation for special formation for special formation for special for special formation for special formation for special formation for special for special for special formation for special formation for special formation for special formation for special formation for special formation for special formation for special for special formation for special formation for special formation for special formation for special formation for special formation for special formation for special formation for special formation for special formation for special formation for special formation for special formation for special formation for special for special formation for special formation for special formation for special formation for special formation for special formation for special formation for special formation for special formation for special formation for special formation for special formation for special formation for special formation for special for special formation for special formation for special formation for special formation for special formation for special formation for special formation for special formation for special formatio	2531/206 0677003 1 Website Properties
Sand Stonings John Commission Universal Universal Universal Vies Vies Vies Universal Universal Vies Vies Vies Vies Universal Universal Universal	Lindrown Na Na Lindrical & consensory of SVT SVT SVT SWT Withouse Femanal	Usharowa No Trajama, DVT Contrandication for Beliosopulation	Makes and a special services of the price of	APPLIESTED C. FINCES, D.Y.	COUSTICES ONNE	UMANAMA NO MANAMANAMANAMANAMANAMANAMANAMANAMANAMAN
Unicom Unicom Unicom Unicom Unicom Unicom Vies Vies Unicom Un	Unknown Day Soft Soft Soft Chikhose Femagi	Use covered to the co	University Univer	GERCARA Mousture Central DV3	An An An An An An An An An An An An An A	UMCOSAO NO NO
Unitroen Unitroen Unitroen Unitroen Unitroen Overweigh net poriely govern Ves TGT CT CT CT Moved 3cm itto rengts	Lingvill & converge & Syr Syr Chinase	Undurang	Unitedani Viviles ogubans Ser 20 daye prier v 28	CTDC-5602	C-DL271 (3) Level NE Preplyledic proment for caperage systems suggisted by the capera	Letrose No No
Unkrown Unkrown Unkrown Unkrown Unkrown Wes Ves CT CT CT CT CT CT CT CT CT C	DVT SVT SVT SVT SVT SVT SVT SVT SVT SVT S	Topuna, DVT Contrated cates for a Micropal after M	MONITOR OF THE PRIES OF THE PRI	No Maratino Cencia, DV1	Preplyfectic promoter or posterometric promoter or participate passes synce	No.
Unforcem Unforcem Unforcem Unforcem Ves Ves CT CT CT	Syr Orr Christian & Constituting & Constitution of Christian Chris	Trauma, DVT Contractication for Belicongulation M M M M M M M M M M M M M M M M M M M	Manager See See See See See See See See See S	Metastato Cencor, DV1	Preplytects presented to telegraphic grassic systems suggety	Beriffit promotes
Unishinan Unishinan Unishinan Vite Vite CT CT Unishinan Unishinan		Contrancicator for Palicipal differing Milk	And see 30 take the re-		A-Ba	
Underwan Underwan Underwan Underwan Ves Underwan Underwan		! i		į		
Underwegeth not nordely access Vite CT CT Unit/Dent				THE CONTROL	Rentidy obess, 694 695	Antongrade est use due la Phylidia rottes
Verse Verse Verse Unstrown Unstrown Unstrown	Urkroue	22044				
Ves Unknown CT Unknown	Femage			 = 		C C C C C C C C C C C C C C C C C C C
Unknown Unknown Worddagen isto rengi p	Femage		# 62 m	rwcrdo)	3,1,89	14,00
Unknown Unknown		s		นพิตตา	,	: ¾
Linitroem Linitroem Worked 3cm isto rengit	j	•				
Unitroem: Worked 3cm isto rengit	- -	Carlin Darth melon	appres	Shortinss of troop	Storbess of Eresth, chaespans	None
Undrown Monda Ston into rengit	Unknown	ե	Unknown	Section 2		
Moreu Alter Attornets	Unicrown				: : :	788 788
1 femal of carbon percent		;		.		104
	Soft into the parties (AC)	Sert into Impagic IMC	Pighterum	Hazn	Right avien	2.3 cm Cauciary
Circle Bizzo	Unknown	Untrosen	Breet at Macanage	; ; ;		
CONT.	With the state of	i	A Processor	websers		Ukeswa
		eres o	emboha a semilinad a sukepay	Интон	Clor noxed in 1ght anum	None
Pathot Outsons Fire Rherran	Elforrements imported	Listen	Derth on S/12/2005	Onall or \$150005	Death on Striaks	Asympticinatic remoths traplanted
Pitor Kumpered Ostached inter remonts on 2/17/2009. 4	£		A Month			
					Urkmown	£

11/1/2003			Recovery Fitter Migra	Recovery Fitter Migration - Petient Companion Matrix CONFIDENTIAL			7 575
Marindon / Mortality	2	***	4		3		
Complete No.	47.860	1905	47055	4964	402		20087
Anteum	St Many's Hospital	Firefa Houses	St. Joseph's Hazara	Semantian Health (318)	franton Heates	Flanted Motors Cons	
	Richmond, VA	Orferdo, Ft.	TANK A	Proeft AZ	Terbard Ci	Plantel LT	Ended by Drawn of the Control of the
Physician	Or Mai Mutcher	Dr. Oresmayer	Or Levaure	100000	Or. Can Verbatio	A STATE OF THE PARTY OF THE PAR	Branch and Angelow
State And	John Pleated	Bruce Labrace	Karin Healam	Editor Evol	744		or cooks of remper
Date Futer Beautiful to the	647208 647208	SHILKOCA	June 2005	June2005	Anteropos Anteropos	- i	Mathew Lavscovier Ingene
Date MOR Surming	Bard 672,7205 Horschal 692,005	SANACOS	876703	671622005	61772038	7787200	80/2008
Lot No.	G/POOMS 34 units						
Semple Returned?	No	2	L'Allendari N'3	Crebbert No	CEO00033	State Tables	Skerres
Filer Indication	Prephyladic plecement for goesic bytass surgery	Unknown	Тата	Cantorny	Unwide	Prophysic pecanent day proving prisate lappeas winger, DVT, 4	LANGUANA.
Other Pt. History	Antabegulanta wero used	DVT, PE	Unknawn	Globbatema methema DVF.	- Introva	Mored get stry	DVI, PE, articoagularta (sest) (retribit), for trupny protestings
Ft. Age at Time of Event	2	A.	Criticount	Unknown	Chknown		503
*	1009		CINCONA	**	Distroyen	2	-
Normal Phoemad?	7 2 3 3	Yes, hovers rehal. Repa	Unkrown	Zar Be	Markey Mark		
Postanjskini Symptome	Outst pain shockness of bream	1	Unknawa	Z syrasod episodes	resembly	Chest pan, shornoss of breath	Urknown
Disgressite in servo		\$4A			5	187	: \$
Days to Movement Occuments	ä	3	Appe 10	Tiew months.	· •		
Mond (s)	Felov ALT BRATA	Zame in mids, Byo Obed	Supra rene ivena cave	Rt athun, rt atral-menul vens	Hoterforth mount junction	Treated valve vertical attem	Lodger against a topog years. defended ann embedded in t
Carable	Coltrown	24 Smm	Lidenari				vertical set
7	filter was hearty surfered; challed CM remained in heart stee mans removal	Fite renoved with dot did also found in like	Linkrown	Clet budshed filter		Clot & Issuerband or eneval	24mm
Paderi Cutobro	Plunder albertakko tar 1 week. Neb elibertak, erymplokatik	Asprephensie	Asymptorate	Oper Name uppay to remove	Unknown)derroterrative.	
FitorRemoved	Ē	6	# #	*es with multiple dat	*****	Yes, with Rocovery Core	Yas, with deligibled limb noted
Fifthe	- 10 M						

9 P P			İ	Acaptad Rea	North VA Workson PA	. Gree .		800,000	104ZD03	 	Unknown I Mengus I	Froatheade desenant britis 1 Prophlex calconent procedure gastic byters procedure	Mortes desay vertal plean,			350 tes	Liverand Yes	Let Awain, anothers of theath small blances Pick a principal the montanesses in the	CT confrond filer in tablium Yes			Hesured & urpaint 25-	1 bet seed None	The program without treatment and the program of the first of the program of the	Secretary net
			- 1	- Formal	1 3 a 5	 2		979-005 979-005-	· · · · · · · · · · · · · · · · · · ·		- No		DV7, redupant PE Motor			Noncourse	Per Cf at mid 2005 shower ther just a pleased implies tocation	Ling swelling St. Chest pair : St. Chest pair : St. Chest pair : St. Chest pair : C	Yes, CT in rid 2006 showed fibre: CT confirmed with in clarified incoming to confirmed		Migrated to triument colve eth Right biologis PF. Right	19 Brm 10 messured as traplant 23	intronoun 3 m. 'gall ball sceed	Ashago to had a property of the property of the painting painting of the property of the prope	Sugist of providing the contract of the contra
Recovery Fitter Migration - Parland Companison Matrix CONFIDENTIAL.	2		•••	1000 IS	V DENEMA	Dr. Devid Keston	Dave Bourbeau	8/15/2005		Letmons	04	tower expense; DV?	Central Activities for	6			SEY.	Stermess of breath	CT above o massive Pt, doz Y. burdened New rightsborr, one tag		- 503.	Ufficient	Film heavy der budsned	Greenfalt River placed superior to A R.Ms., parkent asymptometic	
Recovery Filter Mignal	18	87634		Annual laters Constituting Personal	VM JOHOD	Lat. Comment Negative	Paul Botteren	8950,00\$		Unknown	No. nevers implessed	Progranky	DATE R	BONOL		Cherrana Cherrana	Yes, Supra entel	All formation wife.	Ø,	Approi 210	Myrated in corusts, 1 delected Bits performer (200 kg) & n fivor, 1 ceruched big near agine, 1 detected be near agine.	less than 20mm	Listrous	Asymptoment, then the and not able to be remound, debath of arm remains in liver	Мо, голидти (первотах)
	[50900	Pietra Merical Cartes	Secret Co.			Part Hargood	870Z0CR		SZZTIĆAĐ	**A	Prophyteurs piecement for infercental bleeding 6 stoke	Livenswe	CARDIN	CKUTA SCA AT TAKE		¥ .	[]Attropart	C7 revealed 4,211 filter necessaries	2	Mygated to death ment area with the WC services the WC	< 28tent 70-22tm	we compa	Filter restores & new fiter placement net recoo	, 19
	33.	84402	Mayrtterstein Honeste	Monde re. NJ	Dr. Helbar	School Ferrans	8-9-2-10-5	802208		Unforces		Grophyside placement prior to Deatht cypess kurgery	Morbs comby	Unionan			₩	Flav intresisto) ingress ton Stium vpc) depayment	10 ×	0	Riztum	ZJum	# FO.	Asymp kmabe	Burgically removed after taked promote vital Recovery Corns
\$0122/1/\$1	Migration (Mortality	CortplaintNo	Abbount	Account Gity, State	Physician	Shirs Pro	Deta of Event	Data Ereal Reported to Band	Data Mark Suhmand FDA MAUCE MOR REKAY	LOT No.	Sample Regunes?	Filberindication	Other PL History	Pt. Age at Time of Event	WE		North Placement?	Poel Implant Bymptoma	Disgnostic hasolog	Days to Movement Documented	Manual 167	Cres Sta	ē	Patient Outsche	Pittie Remessa

Myrathos / Mortality	49	80.08	
Compliated No.	ESPECIAL DESCRIPTION OF THE PERSON OF THE PE		
			K
Recount	University of Ministrated Med Cr	St Apres Hanthoms	Coumbia Hospital
Account City, Sust	Jeston MS	Backwore, WD	Missister of
Physician	Or Ofs Gess	D. Nichael Zazini	Towns and the same
Sales Rep	ACON MONEY		DANGE OF THE PARTY
of Evera	Odober 2005	TOTAL PROPERTY	Im Figure
Date Event Reported to Band	3072500	10/19/2000	10000000
Date ADR Granted			TOWNS THE PROPERTY OF THE PROP
F DA MAUDE MOR ROTHER			
CH 12			
	Wathdam	Linkson	- Unform
Chembra Returned 2	¥	9	No rememble planted
Filter Indication	i digital	G Bloc due to Herrolntherapy	
		Condicionaries partires	Propriette for fort surpary
Other Pt. History	Unknown	Unimorn	Morbid chesty
Pt. Ago at Time of Event	3	[e	
¥		3 3	8
	Misson	Non-charge of	
Vornati Placement?	Unitropera	100	Unknowe
Post Smplent Symptoms	-thyoen	Startess of breath, the x &	Care became thrombosed & kohen stud sown
Disgnostic Integrop	Unknown	CTSES	Interest
Days to Movement Documented	124	***	\$ and \$
Econod (s)	Right earlan	Lodged belvoen restume, contacts of York to tribusticates	Abore maks
Carta Size	Undercom	Unknown	
clot	Hore of ramous	Unoneum	News and purchas
Pritami Ostopije	Alymphonetic	Death on toff PROS	Awrightness, tate open d Waters note again
Fibri temonal	7	Unimorn, cannownik autora) persomae	Remains implement
Filtra	2	of temporal	

BPV-17-01-00035639

EXHIBIT 43

Health Hazard Evaluation

DATE: July 9, 2004

TO: Doug Uelmen, BPV QA

FROM: David Ciavarella, M.D.

RE: Limb Fractures of Recovery® Filter

Summary: Seventeen reports of Recovery filter fracture have been received (rate of 0.17%). In 6 cases, fragments migrated to the heart or lung (rate of 0.06%), and in one of these cases, the patient developed serious cardiac symptoms requiring open heart surgery to correct. No other injuries have been reported. A literature review reveals that filter fracture is a known complication of IVC filters, with reported rates in the range of 0.05 to 10%. Recovery filter fracture rates exceed the rates reported by other manufacturers in the MAUDE database, but direct comparison of these filters to Recovery is not possible due to the imprecise & subjective nature of the MAUDE database and the unique retrievability features of the Recovery system.

Conclusion: The Frequency category for serious injury (Critical Severity rating) is Remote (approximately 0.06%). The Hazard Risk Matrix Number is 10. The Frequency category for non-serious injury (Marginal Severity rating) is Occasional (approximately 0.17%). The Hazard Risk matrix Number is 11.

Description of the Problem: From January 2002 through June 2004, there have been 17 reports of limb fractures of the Recovery Filter, part of the Recovery Filter System for use in the Vena Cava. During this period, approximately 12,700 units have been sold. Assuming about 2500 units on the shelf (based on 2.5 units each for 992 accounts), about 10,200 Recovery filters have been implanted.

In 1 of the 17 reports, the filter was "slightly angulated" upon deployment. Placement was reported as normal in 6 cases and no information about the placement of the filter is available in the remaining 10 cases. The indications for filter placement were prophylactic in 7 cases, unknown in 5 cases, and on-label in 5 cases. The fractured limbs were discovered at the time of scheduled filter retrieval in 15/17 cases (88%). None of these 15 patients had symptoms related to their fractured filter or retained filter fragments, either before or after retrieval. Two of the 17 patients (12%) presented with symptoms that prompted evaluation of the filter. One patient underwent a CT scan for a complaint of chest pain. The filter arm was noted in the R ventricle, but the patient's physicians were unable to state that the filter fragment (which was left in the ventricle) was the cause of the chest pain. In the second symptomatic case, the patient presented with sudden shortness of breath and syncope. Hemopericardium and cardiac arrhythmia were diagnosed. A detached filter arm was noted in the ventricular wall, and it was removed during open heart surgery.

In 6 of the cases, hooks (leg ends) were detached; none of them were retrieved, i.e., they all remain in the patient, presumably bound to the wall of the inferior vena cava (IVC). A total of 20 arm fragments were reported in 14 cases (3 patients had detached hooks and arms). Eleven of 20 arms (55%) remain in the patient, and in 6 patients (30%), the detached arms migrated to the heart or lungs. Two detached arms have not been located; 1 of these is thought to remain in vivo. Information concerning the size of the retained filter fragments is available in only 4 cases; the hooks range in size from 3.6 to 4.1 mm, while the size of the only measured arm fragment was 21.6 mm. The time range for discovery of the fracture after implantation is 30 to 237 days, with a median time of 95 days.

Page 1



The root cause of the fractures has not been determined, and an in vitro test method to simulate the in vivo environment does not yet exist. The arm fractures have occurred in a consistent location at the top of the filter.

The Actual Occurrence of Injuries: Six cases had associated migration of a fragment to the heart or lung (in 1 case, the location of the fragment in vivo remains unknown). Serious injury has occurred in only 1 patient, the one in which open heart surgery was required to remove a filter arm that had pierced the ventricle and given rise to syncope presumed due to an arrthymia. Another patient presented with chest pain of undetermined origin. The remaining cases have not reported symptoms or associated injury up to the time of this HHE.

Human Exposure to the Problem: As noted above, about 10,000 Recovery filters have been placed.

General Consequences: Most cases of filter fracture, both those reported here and those in the literature, are without consequence. As seen in one case associated with the Recovery filter, migration of filter fragments to the heart or lung has the potential to cause tissue erosion and associated cardiac arrhythmias and tamponade, pulmonary hemorrhage and airway damage. Any patient with a patent foramen ovale is at additional risk of paradoxical embolization of the filter fragments, with the possibility of stroke or other end organ damage.

Population Exposed to the Risk: All patients in whom a vena cava filter is placed are at risk for this complication.

Mitigating/Predisposing Factors in the Population at Risk: Unknown. It is theoretically possible that hemodynamic stresses predisposing to fracture might result from mis-alignment of the filter in the IVC. However, the reports do not include evidence or even suspicion of mis-alignment.

Nature & Seriousness of the Risk: The effect of filter fracture is no discernible effect in most cases. Serious injury may occur in a minority of cases, and sudden death is a theoretical possibility. In the MAUDE database, 25 cases of fractured IVC filters from manufacturers other than CR Bard are listed for the period of 2000 through 1Q2004. No deaths were reported, and serious injury was reported in 3 cases (1 case: fragment pierced the kidney; 1 case – fragments pierced the spine and aorta; 1 case – fragment lodged in the liver).

Likelihood of Occurrence of the Problem: No well-controlled trial exists to answer this question definitively for any filter. Review of the literature reveals a risk of filter fracture in the range of a few percent. Kinney quotes a fracture rate of 1%, while Streiff quotes rates from published studies of 0%, 1.7%, 2.8% and 14.1%, respectively, for the Greenfield, Vena Tech, Bird's nest and SNF filters. Greenfield and Proctor³, Ferris et al., and McCowan et al. quote rates of fracture of 0.05%, 2%, and 10%, respectively.

The MAUDE database contains 25 reports of filter fracture from 4 manufacturers other than CR Bard in the period of 2000 through 1Q2004. Market information permits an estimate of about 425,000 IVC filters implanted from these 4 manufacturers during this time. Symptoms and serious injury were reported in 3 cases each, and death in no cases. The MDR rates of complications for other manufacturers filter are therefore:

Overall fracture rate: 25/425,000, 0.006% or 1 per 17,000 filters

Symptomatic rate: 3/425,000, 0.0007% or 1 per 141,667 filters

Serious injury rate: 3/425,000, 0.0007% or 1 per 141,667 filters

Death rate: 09

These MDR reported fractures occurred in permanent filters. There have been no reports of fracture in 2 retrievable filters, the Cook Tulip™ and Cordis Optease™, with an estimated 4,000 and 1,500 filters implanted, respectively.

Reported fracture rate data for the Recovery filter are as follows:

Overall fracture rate: 17/10,200, 0.17% or 1 per 600 filters

Migration to chest: 6(7)*/10,200, 0.06% (0.07%), or 1 in 1,700 (1457)

Symptomatic rate: 2/10,200, 0.02% or 1 per 5,100 filters
Serious injury rate: 1/10,200, 0.01% or 1 per 10,200 filters

Death rate: 0%

These MDR rates are not directly comparable to the observed rates with the Recovery filter for several reasons. First, the MAUDE database reflects only those events reported by the manufacturers, who can differ widely in their interpretation of reporting requirements. Thus different manufacturers may not classify all episodes of fracture as MDR reportable. Perhaps more importantly, however, the Recovery filter is a retrievable filter, and the fracture event was discovered on account of the retrieval procedure in 88% of cases (15/17) at a median time of 95 days after implantation. Fractures in permanent filters are discovered only incidentally, as routine monitoring of implanted filters is not common practice. This could lead to an underreporting bias for the permanent filters. Although no fractures have been reported to date for the other retrievable filters, the estimated number implanted is low. In addition, these filters are retrieved relatively soon after implantation. The mean (range) days before retrieval for Optease and Tulip are 16 (3-48 days) and 11(2-20), 6,7 respectively, timeframes in which no Recovery filter fractures were reported.

Likelihood of Harm if the Problem Occurs: Filter fragments which remain attached to the IVC, or migrate to a similar location, are theoretically capable of causing tissue erosion and foreign body reactions of various kinds. However, as observed in these cases and from literature review, they are generally of little clinical consequence. By analogy, penetration of the IVC wall by intact filters in not infrequent (reported to occur from 0-41% of cases); however, serious injury is very rare. Migration of metal fragments to the heart or lung presents the possibility of cardiac or pulmonary injury with serious clinical consequences. In patients with a patent foramen ovale, left sided embolism is possible, with attendant risk of stroke or other end organ damage. The likelihood of harm caused by fracture of the Recovery filter can be assessed as follows:

Likelihood of migration to heart or lung: 6(7)*/10,200, 0.06% (0.07%), or 1 in 1,700 (1457) Likelihood of serious injury: 1/10,200, 0.01% or 1 in 10,200

Is the Product Essential to Health: Yes. It is particularly important in patients with a limited time frame of high risk of thromboembolism for whom anticoagulation if contraindicated or ineffective (about 20% or more of patients).

Is there an Alternative Available: Yes. Alternative IVC filters exist, but the ability to retrieve the Recovery filter in patients with transient risk of venous thromboembolism makes it an important treatment option for many patients.

Must the Problem Device be Removed or Corrected Surgically: Yes, in some cases.

Is the Problem Expected & Within an Acceptable Statistical Range: See answers above for Likelihood of Occurrence and Likelihood of Harm. Statistical analysis of rates of fracture for Recovery versus

Page 3

^{* 6} fragments are known to have gone to heart or lung; the in vivo location of 1 fragment is unknown

^{* 6} fragments are known to have gone to heart or lung; the in vivo location of 1 fragment is unknown

other filters is not directly possible, due to lack of comparable datasets. Filter fracture and consequent injury rates for Recovery are well below those reported in the literature (with the one exception of reference 3), but substantially above those reported as MDRs by other filter manufacturers. For the reasons noted above, however – primarily retrievability features – data allowing a direct comparison of the Recovery filter with any other IVC filter are not available.

Can the Problem be Corrected in the Field: Percutaneous retrieval of the filter fragments is sometimes possible, leading to correction/mitigation of the hazard. However, when the fragment is in a difficult location, retrieval may be impossible or contraindicated.

Is the Problem or Health Hazard Obvious to the User: As mentioned above, filter fracture is a known complication of IVC filter placement, and information concerning this hazard has been placed in the Recovery IFU. However, there is no way to predict which patients will develop this complication. More frequent monitoring of the filter once placed may facilitate discovery of abnormal placement (a possible but not proven predisposing factor for fracture) or indeed of a fractured filter, but could not prevent all potential adverse events.

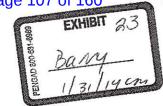
Can the Product Continue to be Used with Proper Warnings: Yes.

Is the Device Used Only by Specially Trained Health Care Professionals: Yes.

References:

- 1. Kinney TB: Update on inferior vena cava filters. J Vasc Interv Radiol 2003; 14:425-440.
- 2. Streiff MB: Vena caval filters: a comprehensive review. Blood 2000; 95:3669-3677.
- Greenfield LJ & Proctor MC: Filter complications and their management. Semin Vasc Surg 2000; 13:213-216.
- 4. Ferris EJ, McCowan TC, Carver DK, McFarland DR: Percutaneous inferior vena caval filters: follow-up of seven designs in 320 patients. *Radiology* 1993; 188:614-615.
- McCowan TC, Ferris, Carver DK, Molpus WM: Complications of the nitinol vena caval filter. J Vasc Interv Radiol 1992; 3:401-408.
- 6. Instructions for Use, Cordis OptEaseTMVena Cava Filter.
- 7. Instructions for Use, Cook Günther TulipTM Vena Cava Filter

EXHIBIT 46



Updated Health Hazard Evaluation

DATE: June 30, 2004

TO: Doug Uelmen, BPV QA

FROM: David Ciavarella, M.D.

RE: Migration of Recovery® Filter

N.B.: This HHE is an update to two prior HHEs performed for the same hazard by Dr. John

Lehmann. These HHEs were submitted as part of Remedial Action Plans on March 10, 2004 and April 27, 2004. This update includes information from all reported cases of

migration of the Recovery filter through June 29, 2004.

Summary: Migration of a thrombus-encased Recovery inferior vena cava (IVC) filter has been reported in 10 patients. In two additional cases, filter migration without associated thrombus was probably the result of mis-deployment, which, in one of these cases, led to iatrogenic filter displacement to the heart. The root cause of the thrombus-associated migration events is judged to be thrombus-induced pressure increase in the IVC, leading to acute IVC expansion beyond the design limits of the filter. The overall rate of this complication of placement of Recovery filters is comparable to the rate reported by other IVC filter manufacturers.

Conclusion: The Severity category for the risk of thrombus-associated filter migration is Catastrophic, and the Frequency category is Remote (approximately 0.05%). The Hazard Risk Matrix Number is 8.

Description of the Problem: There have been 12 reports of migration of the Recovery Filter, part of the Recovery Filter System for use in the Vena Cava. Filter migration has been defined in the literature (and for the purposes of this HHE) as movement of the filter of > 2 cm from the site of deployment. A further important distinction in the definition of migration is whether the filter alone has moved or has moved as a component of a thromboembolus. In the first case, a hazard is created by the unintended movement of the filter. In the second case, the "malfunction" is best understood as a limitation of the ability of the device to carry out its intended function. These limitations are spelled out in the literature and in the IFU.

In 2 of the 12 reports, migration was of the filter alone. One case involved minimal cephalad migration and tilting, leading to the physician's decision to retrieve the filter percutaneously (as per IFU). The second case was jatrogenic, caused by the physician's technically incorrect manipulation of a filter that had deployed with crossed legs. This mechanically displaced filter migrated to the heart requiring open cardiac surgery to remove it.

The remaining 10 cases involved migration of filter encased in large thrombi. In these cases, no problems of a technical nature were reported during the placement procedure, that is, the filters were properly deployed into vena cavae of appropriate size (≤ 28 mm). Of these remaining 10 cases, 4 involved migration within the inferior vena cava (3-4 cm cephalad movement) and 6 involved migration to the heart, typically to the R atrium/tricuspid valve. Of the 6 events involving thrombi-encased filters that migrated to the heart, 4 were associated with patient death. No cases of spontaneous migration to the heart unassociated with large thrombus have been reported.

The root cause of the migration event in these 10 cases is judged to be dislodgment of the filter due to the presence of a large thrombus. The exact mechanism of the dislodgment is unknown, but is presumed due to an acute increase in intracaval pressure (caudal to the filter) with resulting expansion of the IVC beyond the design limits of the filter. It is further presumed that the large thrombus caught in the filter was the primary contributor to the acute increase in intracaval pressure. In some cases, pathological examination revealed evidence suggesting that thrombus growth may have occurred at the site of its capture by filter.

The Actual Occurrence of Injuries:

Information about injuries to the 4 patients with migration confined to the IVC is provided as follows:

- A patient with a myocardial infarction with a 3-4 cm cephalad migration of the filter had it removed along with the thrombus on day 16 after insertion without difficulty.
- A patient with (presumed) idiopathic venous thromboembolic disease with a 4 cm cephalad migration was not subjected to a retrieval procedure due to the large clot. No further information is available.
- 3. A patient with morbid obesity underwent placement of the Recovery filter 2 weeks prior to bariatric surgery. She developed nausea and vomiting 2 weeks after surgery and was rapidly rehydrated in the hospital. DVT developed with lower extremity edema and renal failure. CT scan revealed that the filter had migrated cephalad to the renal veins, which were thrombosed. At last follow-up, the patient was undergoing dialysis for renal vein thrombosis. There were no imminent plans to retrieve the Recovery filter.
- 4. A patient with a history of DVT underwent Recovery filter placement before knee surgery. Abdominal pain and lower extremity edema developed 7 days later. The Recovery filter had migrated minimally to the level of T12, associated with a 7 cm x 4 cm thrombus encasing and deforming the filter. A TrapEase IVC filter was placed above the Recovery filter using a jugular vein approach. Thrombolytic therapy for IVC occlusion was being considered at last follow-up.

Information about the 6 patients in whom the thrombi-encased filter migrated to the heart is provided as follows. Two (2) patients survived the migration event without further complication.

- A patient with (presumed) idiopathic venous thromboembolism developed significant bleeding due to anticoagulation therapy. This was stopped, and a Recovery filter placed. The patient subsequently developed SOB and lightheadedness. On investigation, extensive thrombus was noted in the pulmonary artery, R atrium and IVC. The thrombus encased filter was in the R atrium. Successful surgical embolectomy with filter removal was performed, and the patient recovered without further complication.
- 2. A bariatric surgery patient developed a major GI bleed associated with coumadin therapy. Conmadin was stopped and a Recovery filter was placed without difficulty. Five days later the patient developed chest and abdominal pain. Investigation revealed a large thrombus encasing the filter across the tricuspid valve. It was removed percutaneously without trouble, and a Greenfield IVC filter was placed.

The following 4 cases were associated with patient death.

3. This patient is described in detail in the March 10, 2004 HHE. This morbidly obese patient underwent placement of a Recovery filter prior to bariatric surgery. His postoperative course was marked by prolonged intubation and CHF. On day 5 he collapsed while on the toilet and could not be resuscitated. A very large thromboembolus (10 cm x 4 cm) was noted in the R atrium, en-



- casing the filter. The cause of death was ascribed to circulatory collapse due to the large thrombus in the R atrium.
- 4. This patient is described in detail in the April 27, 2004 HHE. This patient developed DVT during hospitalization for a subarachnoid hemorrhage. A Recovery filter was placed just prior to discharge from the hospital. On day 13 after placement, the patient was found dead in bed at home. Large thromboemboli were found encasing the filter and attached to the R ventricular wall. There was evidence that the filter struts had pierced the R ventricular wall. The IVC, which measured about 25 mm at insertion, was noted to be 30-35 mm at antopsy.
- 5. A Recovery filter was placed pre-operatively in a patient who underwent Vertical Gastric Bypass surgery. He had a history of venous thromboembolism associated with bedrest after trauma surgery in the past. About 1 month after surgery, he presented to the ED with vomiting and abdominal pain. RBBB was noted on EKG and his platelet count was \$,000/μL. The patient became hypotensive and attempts at resuscitation were unsuccessful. Autopsy revealed a very large thrombus across the tricuspid valve. It encased the filter, which was partially embedded in the myocardium. Ventricular wall hemorrhage and hemopericardium were seen posteriorly.
- 6. A Recovery filter was placed in a patient with head trauma. Ten days later, cardiac arrest occurred. The filter was found encased in a large thrombus which had embolized to the R ventricle. Large thrombi were seen from the R femoral vein to the R atrium.

Human Exposure to the Problem: Migration is a known complication of vena cava filter placement. The literature lists its occurrence in about 2% to 5% of patients. However, the literature reports are not clear regarding the incidence of filter migration with or without thrombus.

General Consequences: As seen in the cases reported here, filter migration can lead to minimal or no complications. However, filter migration to the heart is generally symptomatic and can be fatal.

Population Exposed to the Risk: All patients in whom a vena cava filter is placed are at risk for this complication.

Mitigating/Predisposing Factors in the Population at Risk: One discernible predisposing factor for filter migration would be incorrect deployment, including improper location, tilting of the filter or placement in a patient with an IVC too large for the filter (> 28 mm in the case of the Recovery filter). There was evidence of mis-deployment in only 2 of 12 reports of migration, but none in those cases associated with thrombus and patient death. Because of the risks of IVC filters, physicians are careful to place them only in patients judged to be at high risk of symptomatic venous thromboembolism, especially those at risk for fatal pulmonary embolism. Patients with head trauma, morbid obesity are at particularly high risk of venous thromboembolic disease. The risk of pulmonary embolism in the types of patients reported on in this HHE is judged to be in the range of 0.5% to 12%, despite the use of other antithrombotic modalities such as compression stockings or anticoagulation. In addition, IVC filters are the best option to lower the risk of fatal PE in many patients in whom anticoagulation cannot be given due to head injury or major bleeding.

A second predisposing factor for migration would be the development of a large burden of thrombus. Analysis of the reports of Recovery filter migration shows that all occurred in patients with proven large thrombi; no cases of (non-introgenic) filter migration alone have been seen. Thus, patients in whom the Recovery filter is most likely to be life-saving, i.e., those at high risk of developing fatal PE due to large thrombi, are most predisposed to this complication. It is pertinent to note that these patients would likely have been at considerable risk of dying from their emboli whether or not the Recovery filter was present. Also, in those cases in which migration was confined to the IVC, the Recovery filter probably played an important role in preventing pulmonary embolism.

Nature & Seriousness of the Risk: The effect of migration, as mentioned above, may be no discernible effect to sudden death.

Likelihood of Occurrence of the Problem: Review of the literature reveals a risk of filter migration in the range of a few percent. However, there are no controlled trials to answer this question definitively. Review of MDR reports for all filters in the MAUDE database, in conjunction with estimates of the number of filter placements, places the rate of migration in the range of 0.02 -0.15%. Another manufacturer of retrieval filters reports a rate of 0.02% (source: Günther Tulip vena cava filter IFU). However, reliable comparability data for this complication across manufacturers are not available due to the inherent subjectivity in reporting practices. There have been 10 cases of migration reported for the Recovery filter, and about 10,000 filters have been placed, giving a migration rate of approximately 0.1%. The rate of potentially life-threatening injuries associated with this hazard is 5 in 10,000 (0.05%, based on the 4 fatalities and 1 patient with renal vein thrombosis) and fatality rate due to this complication is approximately 4 per 10,000, or 0.04%. As discussed above, it is likely that fatalities due to PE would have occurred in some or all of these cases in the absence of the Recovery filter.

Likelihood of Harm if the Problem Occurs: Filter migration to the heart, with or without thrombus, is likely to cause serious injury, if only in the requirement for surgery to retrieve the filter. Filter encased in a large thrombus might present a higher risk than thrombus alone, based on the cases where the filter struts were reported to have pierced the ventricle. However, it is not possible to separate the effects of the large thromboembolus from the effects of the filter alone.

Is the Product Essential to Health: Yes. It is particularly important in patients at high risk of thromboembolism for whom anticoagulation if contraindicated or ineffective (about 20% or more of patients).

Is there an Alternative Available: Yes. Alternative IVC filters exist, but the ability to retrieve the Recovery filter in patients with transient risk of venous thromboembolism makes it an important treatment option for many patients.

Must the Problem Device be Removed or Corrected Surgically: Yes

Is the Problem Expected & Within an Acceptable Statistical Range: Yes, to the extent that comparative data are available.

Can the Problem be Corrected in the Field: Percutaneous retrieval of a migrated Recovery filter is sometimes possible, leading to correction/mitigation of the migration risk. However, when the filter is encased in thrombus, percutaneous retrievable may be impossible or contraindicated.

Is the Problem or Health Hazard Obvious to the User: As mentioned above, filter migration is a known complication of IVC filter placement. However, there is no way to predict which patients will develop this complication. Reported cases involved patients with varying diagnoses at very high risk for venous thromboembolism; that is the reason for placement of the filter. There were no major procedural problems reported in the 10 patients with thrombus, and vena cava size was within the range recommended by the Recovery Filter System IFU.

Can the Product Continue to be Used with Proper Warnings: Yes.

Is the Device Used Only by Specially Trained Health Care Professionals: Yes.

EXHIBIT 47

From: Hudnall, Janet [/O=BARD/OU=TPE AG/CN=RECIPIENTS/CN=JHUDNALL]

Date: 7/15/2004 11:24:56 PM

To: TPE-Interventional Sales-DG [/O=BARD/OU=MHL AG/cn=Recipients/cn=TPE-

Interventional Sales-DG], Coutanche, Monica [/O=BARD/OU=MHL

AG/cn=Recipients/cn=MCoutanche], Lawson, Matthew [/O=BARD/OU=SYD AG/cn=Recipients/cn=MLawson], Ruggiero, Roberto [/O=BARD/OU=ROM AG/cn=Recipients/cn=RRuggiero], Borremans, Frank [/O=BARD/OU=OLN

AG/cn=Recipients/cn=FBorremans]

CC: McDermott, John [John.McDermott@crbard.com], Shifrin, Kevin

[Kevin.Shifrin@crbard.com], Edwards, Mary [/O=BARD/OU=TPE

AG/CN=RECIPIENTS/CN=MEdwards], Uelmen, Doug

[Doug. Uelmen@crbard.com], Carr, Robert [Robert.Carr@crbard.com], DeCant,

Len [/O=BARD/OU=TPE AG/CN=RECIPIENTS/CN=LDeCant]

Subject: Vena Cava Filter Complications Q&A **Attachments:** Vena Cava Filter Complications 3.doc

-

All,

Attached is a document that details some frequently asked questions regarding Recovery complications. This document contains verbiage that has been corporate-reviewed and approved. Please do not deviate from this script and please do not distribute—this document is strictly for internal use only.

Please feel free to contact me with any questions/concerns.

Regards, Janet

Confidentiality Notice: The information contained in this email message is privileged and confidential and intended only for the use of the individual or entity to whom it is addressed. If the reader of this message is not the intended recipient, please inform the sender and note that any dissemination, distribution, or copy of this message is strictly prohibited.

Vena Cava Filter Complications – FAQs

- Q: What is the migration rate for Recovery® Filter?
- A: It is difficult to determine actual rates. Acceptable statistical ranges cannot be reliably calculated from available data. However, estimates based on MAUDE and sales data suggest that there is no significant difference in the rates of these complications between competitive devices, including the Recovery® Filter.

The following table shows the number of incidents reported to the MAUDE database for period beginning Q2, 2003 through Q2,2004:

Complication Type	Recovery	Total for All Filters (includes Recovery)
Migration	9	39
Central Migration (Subset of Migration)	7	23
Caval Penetration	1	2
Caval Perforation	0	12
Caval Thrombosis	0	10
PE	4	5
Filter Fracture	1	13
Death	5	16

Reporting period: April 2003 - June 2004

- O: What were the circumstances surrounding the deaths?
- A: In all cases of migration-related deaths, the filter was reportedly placed appropriately; however, a massive thrombus burden overwhelmed the filter. The diameter of the thrombus distended the vena cava to the point where its diameter exceeded the physical limits of the filter.
- Q: Why did the new complaints not prompt a product hold?
- A: The initial hold was an internal action. The FDA was never involved in the decision to put the product on hold. It was a conservative step that allowed us the time to determine if our overall complication rates were comparable to those reported in the literature and the MAUDE database for other IVC filters.

Every reported complication is treated with the utmost care and seriousness. Although the new reported migrations are unfortunate, they still fall within our expected parameters.

FOR INTERNAL USE ONLY

CONFIDENTIAL

DO NOT DISTRIBUTE

- Q: Why didn't you tell us about the complications before the MAUDE database update?
- A: It is inappropriate to discuss reported complications prior to the completion of the investigation. For each case reported, we conduct a thorough investigation according to our established, systematic process which can take a great deal of time and resources.
- Q: Is Recovery® Filter a safe device?
- A: The Recovery Filter was rigorously tested for all physical performance characteristics according to our established test methods and protocols and was found to meet all test specifications and requirements.

As stated previously, Recovery $^{\otimes}$ Filter's overall complication rates are comparable to those reported in the literature and the MAUDE database for other IVC filters.

FOR INTERNAL USE ONLY

CONFIDENTIAL

DO NOT DISTRIBUTE

EXHIBIT 49

Internal Q&A: CR Bard Recovery® Vena Cava Filter Version Aug. 30, 2004

Note: Internal Q&A to be used by approved Corporate spokespeople to respond consistently to inquiries from media. Not to be handed out externally to any audiences.

1. What is the Recovery® Vena Cava Filter and how does it work?

Introduced in April 2003, the Recovery® Nitinol Vena Cava Filter is a blood clot trapping device designed to prevent pulmonary embolism by mechanical filtration. The filter is implanted percutaneously in the inferior vena cava (IVC). The Recovery® Filter has the additional feature, which was approved in July 2003, of being able to be percutaneously removed after implantation. The Recovery® Filter may be used as a permanent or temporary device.

The Recovery® Filter System consists of the Filter and Delivery System. The Filter consists of twelve nitinol wires emanating from a central sleeve. These twelve wires form two levels of filtration. The device is intended to be used in the (or vena cavae)vena cava with diameters of up to 28 mm (in isolation the 28 mm value means nothing. Wouldn't we want to say: in selected patients who may benefit, or in patients who meet the criteria, as judged by his/her physician, set in our IFU. What is the important point here?

2. What is the difference between a retrievable vena cava filter and a non-retrievable vena cava filter?

A non-retrievable vena cava filter is indicated for permanent use; once inserted into the vena cava, the device is left in place. This begs the question somewhat. A permanent filter is one that CANNOT be safely removed; my guess is that physicians would like the option of easy and safe filter removal for ALL filters they implant. On the other hand, after implantation, a retrievable vena cava filter may be removed at the physician's discretion, once the risk of a venous thromboembolism or pulmonary embolism is reduced or if the side effects of the filter make removal advisable.

The Recovery[®] Filter is designed to act as a permanent filter. When clinically indicated, the Recovery[®] Filter may be percutaneously removed. The Recovery[®] Filter's hooks allow the filter to remain rigid and provide anchoring, but deform when the filter apex is engaged with the specially

designed removal device (Recovery Cone® Removal System) and pulled upward.

3. What is the marketshare of the Recovery® Filter for the overall vena cava filter market?

Less than 10% (in units).

4. What is the marketshare of the Recovery® Filter for the retrievable vena cava filter market?

Our sales are approaching 14,000 units of the Recovery® Filter. We understand that the overall total market worldwide?for all retrievable and non-retrievable vena cava filters is approximately 130,000 units.

While the retrievable segment of the vena cava filter market is rapidly growing, for the past 12-month period, the market is estimated to have been approximately 30,000 units. Of that, Recovery had a 25% share.

5. How many Recovery® Vena Cava Filters have been inserted in the US and, separately, around the world?

As of August 2004, our sales are approaching 14,000 units of the Recovery Filter.

6. Do you have any studies that prove the safety and efficacy of the Recovery[®] Vena Cava Filter?

Yes, we have studies that prove this is a difficult word here. Proving safety is a hard thing to do with any degree of certainty, and we don't have the large scale controlled clinical studies that most educated individuals and physicians would accept as eveidence of "proof". the safety and efficacy of the Recovery Vena Cava Filter. For example, the Recovery Filter was safely and effectively used in a study at six Toronto area hospitals. In this Toronto study, of the 58 filters implanted, a total of 46 have been retrieved to date. If this is for internal questions, would we not want to comment on the complaint data – surely it is relevant to any discussion of "safety and efficacy"

In addition, the Recovery[®] Filter underwent testing (bench top or animal studies or a combination of both) according to FDA guidelines to obtain FDA concurrence.

We are happy to provide a full listing of study summaries to you.

7. What are pulmonary emboli and what are the risks associated with them?

Pulmonary emboli are blood clots that form in large veins, such as those in the thigh, and then travel to the lungs. In the lungs, they block blood flow, which can cause shortness of breath, chest pain, faintness, low blood pressure, lung damage, and in severe cases, sudden death. Such clots are particularly likely to form in a variety of unusual circumstances, including prolonged immobility, after hip surgery, after major traumatic do you mean trauma surgery or any major surgery? surgery and in obese individuals after weight reduction ("bariatric") surgery.

8. Under what circumstances would the Recovery® Vena Cava Filter be used?

The Recovery® Filter is indicated for use in the prevention of recurrent pulmonary embolism through permanent or temporary placement in the vena cava in the following situations:

- a. Pulmonary thromboembolism when anticoagulants are contraindicated.
- b. Failure of anticoagulant therapy for thromboembolic disease.
- c. Emergency treatment following massive pulmonary embolism where anticipated benefits of conventional therapy are reduced.
- d. Chronic, recurrent pulmonary embolism where anticoagulant therapy has failed or is contraindicated.

The device is intended to be used in vena cavae with diameters of up to 28 mm, and when clinically indicated, the Recovery® Filter may be percutaneously removed. this is redundany with clinically indicated.

9. How is the Recovery® Vena Cava Filter inserted?

The Recovery® Vena Cava Filter is inserted into via (or into a femoral vein) a femoral venous access route during a procedure performed by a medical professional. The "Instructions for Use" provide more information about the insertion and removal procedures.

10. Who designed the Recovery® Filter?

Bard purchased the product design and manufacturing from a valued partner. Bard has thoroughly assessed and tested the product and stands behind its design in every way.

11. What is the name of the company that designed the Recovery® Filter?

That information can be found in public records.

12. Have there been any design changes in the Recovery® Filter over the years?

The designs of our products are updated periodically as part of our commitment to continuous improvement. In the case of the Recovery[®] Filter, there have been changes in the delivery system but not the filter itself.

13. What level of expertise is required to properly insert the Recovery® Vena Cava filter?

Physicians who have undergone training for minimally invasive, endovascular procedures can place the Recovery® Vena Cava Filter. These physician specialties include, but are not limited to, interventional radiologists, vascular surgeons, trauma surgeons, cardiologists, and general surgeons as well as residents and fellows of those disciplines.

Placement of the Recovery Filter, in general, is quick (10 minutes) if there is easy access to the femoral vein. The procedure has been described by physicians as easy to perform.

14. How are doctors trained on the proper use of the Recovery® Vena Cava filter? How extensive is this training?

There is currently no formal training requirement imposed on users by Bard for filter *insertion*.

Filter *retrieval* is under a limited market release process which requires the user to either 1) attend a one-day hands-on workshop or 2) have a qualified sales representative present for their cases.

To our knowledge, other makers of retrievable filters do not require physician training for filter insertion and/or removal.

15. What are the potential complications associated with the Recovery® Vena Cava filter?

Potential complications observed for all types of inferior vena cava filters including the Recovery® Filter include filter migration, perforation of the vena cava wall by filter legs, and vena caval occlusion or obstruction. Fractures and fracture/migration events?

16. How often does the Recovery® Filter actually migrate?

As of the end of August 2004, our sales are approaching 14,000 units of the Recovery Filter. Of this number, there have been 16 reported cases of migration since 2000.

Estimates based on available data suggest that these types of events are not occurring with excess frequency when compared with other competitive products.

There is risk of migration with any vena cava filter. There is no single definitive cause of filter migration. The buildup of a large clot or series of clots, the movement of the walls of the vena cava due to respiration and improper filter placement are all likely causes of filter migration. There are also other factors that could potentially cause a filter to migrate, and many questions still remain as to exactly why filters migrate. In addition, filters may appear to have migrated due to x-ray equipment variation, patient position, measurement error, and respiration.

17. How does your rate of migration for the Recovery® Filter compare to that of your retrievable and nonretrievable device competitors?

Estimates based on available data suggest that these types of events are not occurring with excess frequency when compared with other competitive products.

18. Are retrievable filters more susceptible to migration than non-retrievable filters?

Estimates based on available data suggest that these types of events are not occurring with excess frequency when compared with other competitive products.

19. What causes filter migration?

Filter migration occurs whenever the force trying to move the filter exceeds the holding power of its fixation arms. A properly placed vena cava filter can constrain a significant amount of blood clot, but large blood clots can overwhelm the filter's retentive capabilities. Other recognized causes of filter migration include improper implantation technique, unusual patient exertion (such as straining at bowel movements) and fracture or failure of the filter wires. All marketed filters in the US have reported instances of filter migration.

It also is important to point out that the exact reason/mechanism of filter migration has not been described in medical literature. In other words, no one knows for sure how/why filters migrate.

20. What is the "acceptable" rate of migration for vena cava filters?

Realistically, migrations do occur. All marketed filters in the US have reported instances of filter migration. Experts continue to debate what constitutes an acceptable rate of migration, relative to the risk of not using the filter.

Additionally, the removability of the filter permits its use in an expanded population. For example, in the past, there were no acceptable options – a filter would not be placed in young people, some trauma patients, and patients who were contraindicated for anticoagulants.

Now, these patients have the choice of having a filter placed because it is removable.

21. What are the dangers associated with filter migration?

Some filter migrations are harmless to the patient and include filter movement of a few centimeters. In unusual cases, a filter containing a large amount of clot may migrate through the bloodstream to the lungs or heart. These complications can require surgical removal of the filter and clot, and rarely cause death. Without the filter, this amount of clot would generally have passed directly to the lungs or heart, causing substantial harm on its own.

22. If a retrievable filter provides the added benefit of retrievability and creates no greater risk of migration or other complications, why would any physician choose to use a non-retrievable filter?

I cannot speak on behalf of physicians but understand that non-retrievable filters can be less expensive than retrievable filters. Presumably, if a physician believes there will be no reason to remove the filter, it might make sense to choose the less expensive non-retrievable option. However, there is no way to predict with 100% accuracy whether or not a patient is going to require the filter for the rest of his/her life. I understand though, that an increasing number of physicians choose retrievable over non-retrievable vena cava devices after gaining greater understanding of the safety, efficacy and added benefits of retrievable filters.

23. Migration of a Recovery® Filter was recently listed as the cause of death for a patient in FL. Can you tell us why this specific filter migrated?

As with any report of an adverse event, we took an immediate, systematic approach to determine the cause and events. We formed a multi-disciplinary team to thoroughly investigate the incident. From the information available to date, we have drawn the following conclusions regarding the role of the Recovery® Filter in this event:

We do know that there was a very large blood clot or an accumulation of blood clots, measuring 10 cm in length and 3 cm in diameter, which deposited around the filter over a period of several days. The large blood clot or accumulated clots may have enveloped the filter and traveled through the bloodstream to the patient's heart, causing sudden death. The patient was morbidly obese but we are unsure whether this caused any health conditions. Patients with morbid obesity who undego bariatric surgery are at increased risk of blood clots and pulmonary emboli.

Without the filter, this amount of clot would generally have passed directly to the lungs or heart, causing substantial harm on its own.

24. If filter migration was not the cause of death, why was it listed as the cause of death on the coroner's report?

I cannot speak for the coroner. What I can tell you at this point, however, is that from the information available to date, no conclusions can yet be drawn regarding the role of the Recovery[®] Filter in this event.

We do know that there was a very large blood clot or an accumulation of blood clots, measuring 10 cm in length and 3 cm in diameter, which deposited around the filter over a period of several days. The large blood clot or accumulated clots may have enveloped the filter and traveled through the bloodstream to the patient's heart, causing sudden death. The patient was morbidly obese but we are unsure whether this caused any health conditions. Morbid obesity can contribute to the formation of blood clots.(as above)

Without the filter, this amount of clot would generally have passed directly to the lungs or heart, causing substantial harm on its own.

25. Is it possible that the filter was not inserted properly?

I will not speculate on the role of filter placement in this incident. What I can say is that, while improper filter insertion or placement can cause migration, we believe a blood clot as large as the one that enveloped the filter in this incident might cause migration of any IVC filter.

Without the filter, this amount of clot would generally have passed directly to the lungs or heart, causing substantial harm on its own.

26. Is there any reason to believe that the Recovery® Filter is to blame for this patient's death?

I will not speculate on the role of the Recovery[®] Filter in this incident. What I can say is that we believe a blood clot as large as the one that enveloped the filter in this incident might cause migration of any IVC filter.

Without the filter, this amount of clot would generally have passed directly to the lungs or heart, causing substantial harm on its own.

27. Has Bard been sued by the family of the deceased?

Not to my knowledge.

28. Migration of a Recovery® Filter was recently listed as the cause of death for a patient in Redacted Mi. Can you tell us why this specific filter migrated?

As with any report of an adverse event, let me assure you that we are rigorously investigating this incident and putting our best resources toward understanding the reported migration. With this particular event, we formed a multi-disciplinary team to thoroughly investigate the incident.

[INSERT FINDINGS OF GRAND RAPIDS INVESTIGATION]

29. Migration of a Recovery Filter was recently listed as the cause of death for a patient in tedah. Can you tell us why this specific filter migrated?

As with any report of an adverse event, let me assure you that we are rigorously investigating this incident and putting our best resources toward understanding the reported migration. With this particular event, we formed a multi-disciplinary team to thoroughly investigate the incident. As we learn more definitive information, we will make that information available.

[INSERT ANY NEW AVAILABLE INFORMATION]

30. Migration of a Recovery® Filter was recently listed as the cause of death for a patient at Redacted (MO). Can you tell us why this specific filter migrated?

As with any report of an adverse event, let me assure you that we are rigorously investigating this incident and putting our best resources toward understanding the reported migration. With this particular event, we formed a multi-disciplinary team to thoroughly investigate the incident. As we learn more definitive information, we will make that information available.

[INSERT ANY NEW AVAILABLE INFORMATION]

31. Migration of a Recovery® Filter was recently listed as the cause of death for a patient at Redacted (OH). Can you tell us why this specific filter migrated?

As with any report of an adverse event, let me assure you that we are rigorously investigating this incident and putting our best resources toward understanding the reported migration. With this particular event, we formed a multi-disciplinary team to thoroughly investigate the incident. As we learn more definitive information, we will make that information available.

[INSERT ANY NEW AVAILABLE INFORMATION]

32. Migration of a Recovery Filter was recently listed as the cause of death for a patient in Redacte NJ. Can you tell us why this specific filter migrated?

This incident was only recently brought to our attention and, as with any adverse event, we are rigorously investigating this incident and putting our best resources toward understanding the reported migration. As we learn more definitive information, we will make that information available.

[INSERT ANY NEW AVAILABLE INFORMATION]

33. I understand that this was the second migration at this hospital. Was it placed by the same physician? Was it physician error?

This incident is under full investigation. It is too early to make any conclusions regarding the physician's role in the placement of the filter.

34. Has Bard placed the product on hold while these reported incidences of migration have been investigated?

No.

35. Has the Recovery® Filter been associated with other deaths in the past?

Yes. A patient in Redact Wisconsin died with a Recovery® Filter in place. The cause of death cited was pulmonary embolism and not related to the Recovery® Filter.

36. Has Bard been sued because of death or damage caused by migration in the past?

Not to my knowledge.

37. In the late 80's, weren't Bard's balloon angioplasty medical devices permanently pulled from the market because of safety issues?

The Recovery Vena Cava Filter products we are discussing today are considered safe and effective by the medical community and had nothing to do with the situation you mentioned. In the late 1980s, a C.R. Bard subsidiary named USCI manufactured balloon angioplasty catheters, which were taken off the market. The details are well documented. USCI was sold and no individual involved in those incidents is currently with the company. Since then, the entire executive management team has been changed. Today, Bard maintains an excellent working relationship with the FDA.

38. What other Bard products have been pulled from the market and for what reasons?

Bard has been in business for nearly a century, and we are known for our commitment to provide innovative, life-enhancing medical technologies to our patients. Holds can occur for a variety of safety and non-safety related reasons. In cases in which safety was a concern, products were placed back on the market after further testing. The Recovery® Vena Cava Filter products we are discussing today are considered safe and effective by the medical community.

39. What Bard products have been put on hold in the past two years?

As a course of company policy, we do not discuss previous product recalls. When such a recall occurs, we quickly and proactively provide necessary information to impacted customers, physicians and patients. The Recovery® Vena Cava Filter products we are discussing today are considered safe and effective by the medical community.

40. Have you pulled any products over the past five years that have not been put back on the market? If yes, why were they pulled?

As a course of company policy, we do not discuss previous product recalls. When such a recall occurs, we quickly and proactively provide necessary information to impacted customers, physicians and patients. The Recovery® Vena Cava Filter products we are discussing today are considered safe and effective by the medical community.

41. How does Bard receive and respond to reports of adverse events associated with its Recovery® Vena Cava Filter?

With any report of an adverse event, we take an immediate, systematic approach to thoroughly investigate the incident. Our system of tracking and monitoring complaints and adverse events enables us to respond directly to healthcare professionals. We take very seriously our responsibility of developing and delivering safe medical devices.

42. Are there any physicians I can talk with about the safety and efficacy of the Recovery® Vena Cava Filter?

Gary S. Cohen, MD Chief, Interventional Radiology Temple University Medical Center 3401 N. Broad Street Philadelphia, PA 19140 (215) 707-3951 cohenator@aol.com

[Janet: Can we include at least one more physician?]

43. Can you explain the data in the FDA's MAUDE database for the Recovery Filter as compared to other yena cava filters?

The MAUDE database is a quarterly summary of all "MDRs" or "Medical Device Reporting" to the US Food and Drug Administration. It is difficult to use and compare this data for vena cava filters for several reasons, including potential under-reporting and inadequate description of events that could be unrelated to the death or injury, the fact that sales data can only be roughly estimated, and the high variability in event rates across devices and across time periods.

Comparative attempts to assess similar events via the MAUDE database do not yield accurate, quantitative estimates.

44. Since February 2004, there have been six reported deaths associated with the Recovery Vena Cava Filter. Shouldn't Bard pull this product from the market?

Many of these incidences are still under investigation, and we will not speculate on the role of the Recovery® Filter in these events.

However, you should know that, realistically, migrations do occur; in fact, all marketed filters in the US have reported instances of filter migration. Experts continue to debate what constitutes an acceptable rate of migration, relative to the risk of not using the filter. In our labeling, we clearly caution clinicians of this risk. We have no plans to remove this product from the market.

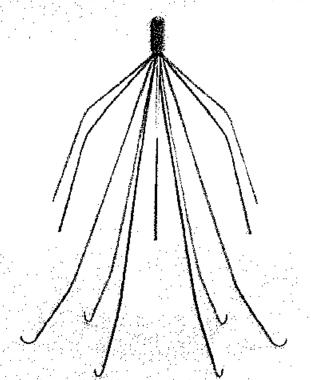
45. Why did you recently change the labeling on the Recovery® Filter?

The Recovery® Filter has been on the market one year and we've taken a hard look at the clinical experience with this product. Based on this clinical experience, we have modified the warnings and potential complications — reiterating the potential serious complications associated with the use of this device.

46. Why didn't the previous "Information for Use" (IFU) warn of the possibility of migrations?

Our previous "Information for Use" DID warn of potential for migrations and other potential complications associated with the use of this device. However, after reviewing the clinical experience over the past year, we decided to modify the labeling to be more explicit regarding the possibility of migrations.

EXHIBIT 50





Timeless Performance"

Vena Cava Filter

DESIGNED TO BE THE ONLY FILTER YOU WILL EVER NEED.

Bard established itself as a leader and innovator in the vena cava filter world with over 100,000 successful filter placements. Now, we have leveraged our decade long experience to bring you the next-generation in filter performance. Introducing RECOVERY. A marked improvement over currently available devices,

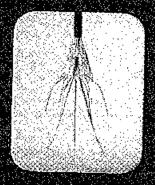
RECOVERY®

RECOVERY filter's unique self-centering design, proven conical shape and bi-level filtering system create the local balance between clot trapping efficiency and caval patericy. Advanced design and accurate placement coupled with tasting performance make RECOVERY the permanent solution for caval interruption -- possibly the only filter you will ever need.

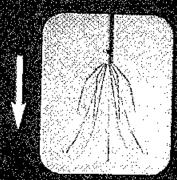
The RECOVERY Cone Removal System was specifically designed to work with the REGOVERY Filter. The advanced engineering that went into developing the filter was

REMOVAL SYSTEM

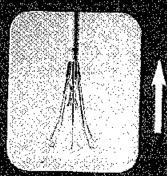
used to create a system that provides a safe and easy retrieval, time after time



Position the cope over the filter



Advance the shepth to close the cone



fiction the filter into the cone

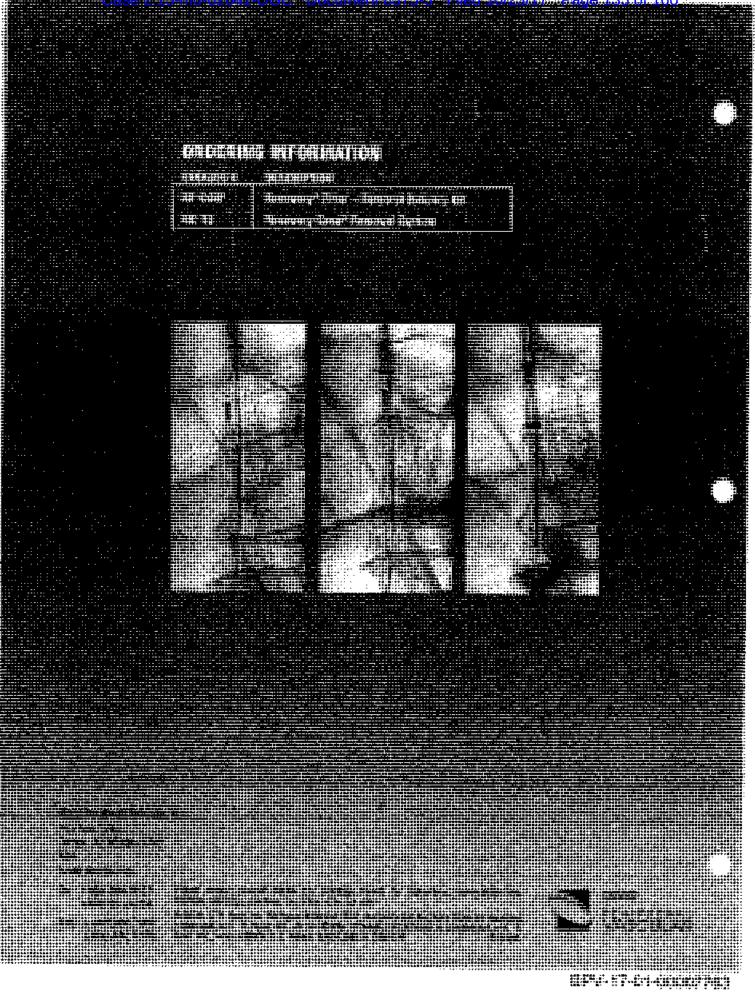


EXHIBIT 51

```
1
            IN THE UNITED STATES DISTRICT COURT
 2.
                FOR THE DISTRICT OF ARIZONA
 3
 4
     IN RE: BARD IVC FILTERS
 5
    PRODUCTS LIABILITY LITIGATION, ) MD-15-02641-PHX-DGC
 6
 7
 8
           DO NOT DISCLOSE - SUBJECT TO FURTHER
 9
                   CONFIDENTIALITY REVIEW
10
11
         VIDEOTAPED DEPOSITION OF JACK SULLIVAN,
12
    produced, sworn and examined on behalf of the
13
    Plaintiffs, pursuant to Notice, on Friday, the 16th day
14
    of September, 2016, between the hours of 9:08 a.m. and
     6:19 p.m. of that day, at the law offices of Wagstaff &
15
16
    Cartmell, LLP, 4740 Grand Avenue, Suite 300, in the
17
    City of Kansas City, in the County of Jackson, and the
18
    State of Missouri, before me, NAOLA C. VAUGHN, CCR No.
19
     1052, CRR, RPR, a Certified Court Reporter, within and
20
    for the State of Missouri.
21
22
23
24
25
```

- 1 what it says. This is really blurry.
- Q. Well, take your time if you want to --
- 3 if you want to try to --
- 4 A. Do you have a magnifying glass?
- 5 Honestly? It's blurry. That's the problem.
- Q. I got to be honest, I don't find it
- 7 very difficult to read. I'm looking at the same
- 8 thing you are.
- 9 A. If you want to read that to me.
- 10 Q. Sure. It says, "Movement or migration
- of the filter is a known complication of vena cava
- 12 filters."
- 13 A. It says more than that; right?
- Q. You want the whole thing?
- 15 A. I don't . . .
- 16 Q. "This may be caused by placement of
- 17 IVC of diameters exceeding the appropriate labeled
- 18 dimensions specified in the IFU. Migration of
- 19 filters to the heart or lungs have been reported
- in association with improper deployment,
- 21 deployment into clots, and/or dislodgement due to
- 22 large clot burdens."
- 23 A. Okay. Thank you.
- Q. No problem.
- 25 A. I don't know if it's my eyes or what.

- 1 Q. No problem.
- 2 Anything about that that applies to
- filters differently, or does it just cover vena
- 4 cava filters generally?
- 5 A. I think it's a general warning
- 6 statement about vena cava filters.
- 7 Q. And let's -- just so you can -- I'm
- 8 going to hand you --
- 9 MS. KOWALZYK: This copy isn't a clear
- 10 copy.
- 11 (Exhibit 426 marked.)
- Q. BY MR. DeGREEFF: I'm going to hand
- 13 you what's been marked as Deposition Exhibit 426,
- 14 or about to be.
- MR. DeGREEFF: Maybe we can short
- 16 circuit a lot of this. It's my understanding Bard
- 17 has stipulated there's no comparative data in the
- 18 IFUs; is that right?
- MR. NASH: I'm not aware of any.
- MS. KOWALZYK: I'm not aware of any
- 21 stipulation.
- MR. DeGREEFF: Okay.
- MS. KOWALZYK: Do you want me to -- do
- you want to move on to something else, and we'll
- 25 find out on a break?

- 1 MR. DeGREEFF: I can do it quick.
- Q. BY MR. DeGREEFF: I'm handing you
- 3 what's been marked as Deposition Exhibit 426, and
- 4 this is a G2 IFU.
- 5 A. Right.
- 6 Q. Let's just talk briefly about --
- 7 MR. O'CONNOR: Excuse me one second.
- 8 I have just learned that we are starting -- well,
- 9 I think I know the last exhibit number was either
- 10 425 or we're supposed to start at 425, but I will
- 11 get a clarification on that, and we'll start from
- 12 there.
- Q. BY MR. DeGREEFF: Okay. My question
- 14 for this one is on the second page.
- 15 A. Yes, sir.
- Q. Under Warnings.
- 17 A. Okay.
- O. Numbers 5 and 6.
- 19 A. Yes.
- Q. This contains the same -- my only
- 21 question is: This contains the same statement
- 22 about filter fracture and movement or migration is
- a known complication of vena cava filters?
- 24 A. Yes.
- Q. And that's the same as the IFU we just

- 1 looked at?
- 2 A. Looks very similar.
- Q. And I don't see -- will you look at
- 4 the warnings for me. I don't see any mention of
- 5 tilt.
- Is there any mention of tilt in there
- 7 that you see?
- 8 A. Are you specifically looking for the
- 9 word "tilt"? I quess that's what I need to ask.
- 10 Q. Do you have an understanding of what
- 11 filter tilt is?
- 12 A. Yes.
- Q. Anything that you think lends itself
- 14 to filter tilt?
- 15 A. It's hard -- I'm not trying to be
- 16 difficult, but it's hard to say; right? The first
- 17 sentence is, "Do not deploy the filter prior to
- 18 the proper positioning in the IFU." So that could
- 19 lend itself to tilt. Is that right? No?
- Q. You tell me.
- 21 A. Sounds like it.
- Q. You think that's a warning about the
- 23 risk of a tilt?
- A. "Do not deploy the filter prior to
- 25 proper positioning in the IFU."

- 1 yourself, she has to put it down.
- THE REPORTER: I'm just putting that
- you're mumbling because that's what I'm hearing.
- THE DEPONENT: Beautiful. My mom
- 5 would be proud.
- 6 A. I think that's all I can see is a
- 7 movement. Movement could mean tilt.
- 8 MR. O'CONNOR: First exhibit should be
- 9 425 and then 426. So that's what we should do.
- 10 (Exhibit 427 marked.)
- 11 Q. BY MR. DeGREEFF: I'm handing you
- 12 what's going to be marked as -- what?
- THE REPORTER: 427.
- MR. DeGREEFF: 427.
- 15 Q. BY MR. DeGREEFF: Handing you what's
- been marked as Deposition Exhibit 427. This is the
- 17 G2X IFU.
- Does that appear correct? Or one of
- 19 the G2X IFUs?
- A. It says, yes, IFU for G2.
- Q. Again, let's make it pretty quick. If
- you'll look at the page that discusses warnings.
- A. Can you tell me what page it's on?
- Q. Yeah. I think -- if you look at the
- 25 Bates in the bottom, very bottom right-hand

- 1 corner. 2. Α. Yeah. 3 It's 10758. Q. 4 Α. Okay. 5 Q. And 6 and -- number 6 and 7 of the warnings discuss filter fracture and movement or 6 7 migration; is that correct? Yes. I -- I'm not trying to be 8 Α. difficult, but this is -- they're not easy to read 10 because they're blurry; right. But it looks to be 11 the same thing. Yeah. My question's pretty -- was 12 Q. pretty simple. I mean, I'm just going to --13 14 again, this discusses filter fracture as a known 15 complication of vena cava filters; right? 16 Α. Yes. Looks like that's what it says. 17 0. And that relates to all vena cava 18 filters? 19 Α. Yes. 20 Q. And, again, the -- this time it says 21 "Movement, migration, or tilt of the filter 22 are known complications of vena cava filters." 23 Right?
 - 24 A. Okay. Yes.
- Q. And, again, that relates to all

- 1 filters?
- 2 A. Yeah. It's kind of broad. It says
- 3 all filters -- of vena cava filters as a
- 4 statement. Yeah.
- 5 (Exhibit 428 marked.)
- 6 Q. BY MR. DeGREEFF: Okay. Sir, I'm
- 7 handing you what I marked as -- or what I'm going
- 8 to mark as 420 -- Deposition Exhibit 428.
- 9 I'll ask you a few questions about
- 10 this one.
- 11 This document is the titled, Internal
- 12 Q&A: CR Bard Recovery Vena Cava Filters, Version
- 13 August 30, 2004; correct?
- 14 A. Yes.
- O. And is this -- and it states in that
- 16 note that it's a -- that it's approved by -- it's
- to be used by approved corporate spokespeople to
- 18 respond to inquiries from the media; right?
- 19 A. Yes.
- Q. Not to be -- so is this something that
- you, in your role at the company, would have ever
- 22 seen?
- A. I don't recall having ever seen this
- 24 document, no.
- Q. Okay. Have you ever seen anything

- 1 like this? Did you receive these internal Q&As?
- 2 A. Specifically about answering questions
- 3 from the media, no, I never did.
- Q. Okay. Look at -- look at page 4, if
- 5 you would, number 10.
- 6 A. Okay.
- 7 Q. There's a question about who designed
- 8 the Recovery filter, and the answer is -- the
- 9 second sentence says that "Bard has thoroughly
- 10 assessed and tested the product and stands behind
- 11 its design in every way."
- 12 Did I read that correctly?
- 13 A. Yes. That's what it says.
- Q. Was that something that was a message
- that was presented by the salespeople to
- 16 physicians, that the devices were properly tested
- 17 and thoroughly tested?
- 18 A. Sure. Yeah.
- 19 Q. Would you expect before a -- as a
- 20 salesperson, would you expect a product to be
- 21 properly and thoroughly tested before it ends up
- 22 in patients?
- A. I would -- sure. My expectation would
- 24 be and I think anyone's expectation would be that
- it met all criteria that the FDA would stipulate

- 1 tape number 2. It's 10:19 a.m. We're back on the
- 2 record.
- Q. BY MR. DeGREEFF: Sir, you've had a --
- 4 we've taken a break. In fairness to you, did you
- 5 have a chance to meet with counsel?
- 6 MS. KOWALZYK: Object to the form.
- 7 A. Well, we talked, walking to the
- 8 restroom. Right.
- 9 Q. BY MR. DeGREEFF: Having spoken to her
- 10 now, is there anything about your testimony thus
- 11 far that you want to change?
- 12 A. No, sir.
- Q. Okay. So would you -- let's look at
- 14 page 6 of Exhibit 428.
- 15 A. Yes. I'm there.
- Q. And number 17, the question is: "How
- does your rate of migration for Recovery filter
- 18 compare to that of your retrievable and
- 19 non-retrievable device competitor's?"
- 20 And then the response that's supposed
- 21 to go in response to the media is: "Estimates
- 22 based on available data suggest that these types
- of events are not occurring with excess frequency
- 24 when compared with other competitive products."
- Did I read that correctly?

- 1 A. Yes.
- Q. And is that consistent with what --
- 3 what you understood during your time there?
- 4 A. I would -- I would have to -- I don't
- 5 recall how -- I don't want to keep saying that to
- 6 you that it was a long time ago.
- 7 But I would -- I would believe that,
- 8 yes.
- 9 Q. And this is a -- these are questions
- 10 and answers for the media; correct?
- MS. KOWALZYK: Object to the form.
- 12 A. Yeah. Yeah. If -- for a corporate
- 13 spokesperson to respond to the media, yeah.
- Q. BY MR. DeGREEFF: So in other words,
- 15 this is what the corporate spokesperson is going
- 16 to tell the public?
- 17 A. Yes.
- 18 Q. And the public would include
- 19 physicians?
- 20 A. Sure.
- Q. And it would include patients?
- 22 A. Yes.
- Q. And is this -- is this generally
- 24 something that would have been -- strike that.
- Is this consistent with your

- 1 understanding of what the IFU said?
- MS. KOWALZYK: Object to the form.
- 3 A. Talking about migration, I think the
- 4 IFU -- I don't have it in front of me, but it said
- 5 migration, something along the lines, is a known
- 6 complication for all filters.
- 7 Q. BY MR. DeGREEFF: Correct.
- 8 A. So I guess that would be consistent.
- 9 That would mean they're all pretty comparable.
- 10 O. And so that is what -- that is what
- 11 would have been conveyed to the sales force by
- 12 Bard; is that fair?
- MS. KOWALZYK: Object to the form.
- 14 A. Yes.
- 15 O. BY MR. DeGREEFF: Okay. And is that
- 16 what the sales force would have then conveyed to
- 17 the physicians in response to any questioning
- 18 about migration rates with the Recovery?
- MS. KOWALZYK: Object to the form.
- 20 A. Yes.
- Q. BY MR. DeGREEFF: And then the next
- 22 question, number 18, is: "Are retrievable filters
- more susceptible to migration than non-retrievable
- 24 filters?"
- Did I read that correctly?

- 1 A. Yes.
- Q. Is it something that you would have
- 3 wanted the sales force working for you to be
- 4 using?
- 5 A. Yes. I think -- you know, sometimes
- 6 they're left as leave-behinds, and generally
- 7 physicians don't read brochures. It's best to use
- 8 them in a conversation, in my opinion.
- 9 Q. Okay. So you want your -- would you
- 10 want your sales force to convey the information in
- 11 the brochure to the physician?
- 12 A. Sure. Ideally, yes.
- Q. Okay. And look at page 2, if you
- 14 would.
- 15 A. Okay.
- Q. I quess the third sentence down, it
- 17 says, "Introducing Recovery. A marked improvement
- over currently available devices."
- 19 A. Um-hum.
- Q. Did I read that correctly?
- 21 A. Yes.
- Q. What were the currently available
- 23 devices at the time that the Recovery was there?
- A. So there would have been -- our
- 25 filter, Simon Nitinol. Cook had a filter. I

- 1 think just one. The Bird's Nest filter. Boston
- 2 Scientific had a filter. I think just one. I
- 3 can't recall if they had more than one. And
- 4 VenaTech, I think, had one or two filters.
- 5 Q. And this was saying -- this is
- 6 representing that those are a marked -- that the
- 7 Recovery filter is a marked improvement over those
- 8 devices; right?
- 9 A. Yes.
- 10 O. And those devices would include the
- 11 Simon Nitinol?
- 12 A. Yes.
- Q. And then if you read the next part
- down, it says Recovery -- excuse me. It says,
- 15 "Recovery filter's unique self-centering design."
- 16 Did I read that correctly?
- 17 A. Yes.
- Q. And is the -- what is the point of
- 19 that statement?
- MS. KOWALZYK: Object to the form.
- 21 A. The point of that statement -- it
- 22 would not be difficult, but was to call out that
- it had a unique self-centering design; right.
- Q. BY MR. DeGREEFF: Was the idea that it
- 25 would -- that it was less prone to tilt or move?

- 1 MS. KOWALZYK: Object to the form.
- 2 A. That was my recollection is that it --
- 3 unlike -- for instance, at the time I think
- 4 Greenfield may have been the predicate, the kind
- of market leader. And the arms, the upper tier
- 6 arms on the Recovery kind of would have served as
- 7 self-center versus a Greenfield which could
- 8 tilt -- had a propensity to tilt.
- 9 Q. BY MR. DeGREEFF: And so if it's a
- 10 unique self-centering design, that would mean that
- 11 the Simon Nitinol didn't have it either?
- 12 A. Simon Nitinol was a different design.
- 13 So --
- 14 Q. Okay.
- 15 A. -- yes.
- Q. So this was supposed to -- the idea
- 17 here was that you wanted doctors to understand
- that this was going to be more likely to stay
- 19 centered; is that fair?
- 20 A. Well, it would -- yes. I guess you
- 21 could say that, sure.
- Q. And then if you'll look at the next
- page, there's a part that says, "Self-centering,
- the articulated arms, along with the specifically
- 25 engineered flexible pusher wire of the delivery

- system, promote a centered placement." 1 2. Did I read that correctly? 3 Α. Yes. 4 So, again, the idea -- was the idea 5 that the -- you know, the -- this device was -- is better at staying centered? 6 But the delivery system, as I recall, 7 8 and having read this, it kind of harkens me back, that as you're deploying a vena cava filter, the 10 wire in the catheter will always rest on the cava 11 wall. You can't center a wire in a catheter. So 12 it would rest on the wall. 13 And this device, when you deployed 14 that top tier, would move it over to the center of
 - 15 the cava. So that was a unique design for
 - 16 Recovery.
 - 17 O. So the idea is that it -- the
 - 18 centering was -- centering was better with this
 - device? 19
 - 20 Sure. That it was designed to center, Α.
 - 21 that's for sure.
 - 22 (Exhibit 431 marked.)
 - 23 BY MR. DeGREEFF: Okay. So this is Ο.
 - Exhibit 431. Sir, I'm handing you what's been 24
 - 25 marked as Deposition Exhibit 431.

- were selling these filters; right?
- 2 A. Yes.
- 3 Q. So as the person who were overseeing a
- 4 group of people from Bard selling this filter, you
- 5 don't have an understanding of what filter they
- 6 made design changes to get to the G2?
- 7 MS. KOWALZYK: Object to the form.
- 8 A. I quess to be -- to answer your
- 9 question fairly and to be clear, it was 12 years
- 10 ago. I don't -- at that time I may have known.
- 11 Right now I don't recall.
- But you're asking me specifically
- about that sentence, and it refers to a data on
- 14 file. So that's all -- I'm kind of just going by
- 15 what it says here.
- Q. BY MR. DeGREEFF: The idea being
- 17 conveyed to doctors here was that this filter
- 18 somehow has an enhanced resistance to fracture;
- 19 right?
- 20 A. Yes.
- Q. So it's telling physicians that it's
- 22 more fracture resistant?
- A. And fractures were a known
- 24 complication for vena cava filters.
- Q. Okay. But it's -- this is saying it's

```
some somehow more fracture resistant, enhanced;
 1
 2
    right?
 3
                 Saying it's enhanced; right.
           Α.
 4
                 And it's also saying it has got
     increased migration resistance; right?
 5
          Α.
                 Yes.
 6
                 So it's more migration resistant?
 7
           0.
 8
          Α.
                 Yes.
 9
                    (Exhibit 432 marked.)
10
           Ο.
                 BY MR. DeGREEFF: All right. I'm
11
    handing you what I'm marking as Deposition
12
    Exhibit 432.
13
                 MS. KOWALZYK: Thank you.
14
          Q.
                 BY MR. DeGREEFF: And this was the --
15
     it looks like the approval -- and I will make it
     easier on you. If you look at the next page,
16
17
    because that one's kind of confusing --
18
          Α.
                 Okay.
19
                 -- this is an email from Mary Edwards
           0.
     to several people; is that correct?
20
21
          A.
                 Yes.
22
           Q.
                 And on there is Joe DeJohn.
23
                 That would have been your report, the
24
    person you reported to in February 2004; is that
25
     right?
```

- 1 the intensive training at the national sales
- 2 meeting."
- What's the national sales meeting?
- 4 A. So I can't remember at this time if we
- 5 had two a year or one a year, but every year at
- 6 the end of the year we had a meeting, gathered the
- 7 sales team up, celebrate the previous year, do
- 8 training, product launches, et cetera, at that
- 9 meeting.
- 10 Q. So would you have -- would the
- 11 Recovery filter have been addressed at the
- 12 national sales meeting?
- 13 A. I would assume it was. It says so,
- 14 yeah.
- Q. And then the next sentence says, "We
- 16 did test and validate the Recovery filter design
- in terms of migration resistance."
- 18 A. Yes.
- 19 Q. "We tested it against the
- 20 Simon Nitinol filter and found it performed just
- 21 as well as the SNF in terms of migration
- 22 resistance as well as all other measures of
- 23 filter efficacy. All tests were conducted using
- our standard test and acceptance criteria."
- Did I read that correctly?

- 1 A. Yes.
- 2 Q. So is this -- this is an email that
- 3 was going out to the sales force; right?
- 4 A. Yes.
- Q. And the sales -- the sales force -- is
- this being provided so that the sales force can
- 7 answer questions from physicians?
- MS. KOWALZYK: Object to the form.
- 9 A. I don't know what the goal of it was.
- 10 If I can -- I don't remember the email. Can I
- 11 look it over real quick just to see what it
- 12 says --
- Q. BY MR. DeGREEFF: Absolutely.
- 14 A. -- if it states its purpose?
- 15 Q. Absolutely.
- 16 A. So it looks like there was also some
- 17 articles attached to it, and Janet is making the
- 18 field -- making it known to the field that there
- 19 was an incident involving a filter migration.
- 20 So there was -- I don't remember at
- 21 the time what would have necessitated this -- this
- 22 email other than to say I don't recall when the
- 23 first migration was. I remember when -- I kind of
- remember when it happened. It was a big event.
- 25 So -- because it was a complication, that was a

- 1 A. Could be.
- 2 Q. Next, filter limb detached and was
- 3 found in the patient's heart.
- 4 That's a serious injury; right?
- 5 A. Yes.
- 6 MS. KOWALZYK: Object to the form.
- 7 A. It could be. Again, these are --
- 8 you're asking me -- so at this time I was a
- 9 regional sales manager, and I -- I'm certain --
- 10 and I'm going to have to -- you're asking me a lot
- of questions about medicine that I can't tell you.
- Doctors put stints in hearts. So this
- was certainly not an ideal thing for the filter to
- 14 have a leg in someone's heart. And I'm not coarse
- in saying that it wasn't. I would not want -- I
- 16 would never want a vena cava filter. I don't want
- 17 anyone in my family to have one, because you have
- 18 a lot of sickness that's leading to that.
- 19 What I will -- just -- what I don't
- 20 know by reading this is the filter was tilted at
- 21 90 degrees.
- Q. BY MR. O'CONNOR: Right.
- 23 A. Did it get tilted when the physician
- 24 was trying to retrieve it? These are things we
- 25 don't know.

EXHIBIT 54

To:

T. Ring/J. Weiland

From:

C. Ganser

Date:

April 19, 2005

Subject:

IVC Recovery Filter Adverse Events (Migrations/Fractures) - Executive Summary

Following is an adverse event summary of the Bard IVC Recovery Filter for migrations and fractures through 4/15/2005:

Migrations

- 34 filter migrations reported > 2 cm
- 21/34 cases involved migration of the filter encased in large thrombi
- 10/21 migrations with thrombi encasement migrated to the heart
- 9/34 migrations involved morbidly obese/gastric bypass patients
- 8/9 placements in gastric bypass patients occurred preoperatively.
- 9/34 migrations death reported
- 6/9 migration fatalities massive clot burden reported to have overwhelmed the filter
- 5/9 migration fatalities involved morbidly obese/gastric bypass patients
- 1/9 migration fatalities involved woman suffering from a sub-arachnoid hemorrhage
- 1/9 migration fatalities involved trauma patient (massive head wound)
- 1/9 migration fatalities involved a patient post Achilles tendon surgery
- 1/9 migration fatalities investigation revealed insufficient data
- 5 pulmonary embolism fatalities, unrelated to migration
- 27,166 units sold as of 4/15/2005
- Estimated 21,733 units placed
- Bard IVC Recovery filter migration rate 0.125% (based on units sold)
- Bard IVC Recovery filter migration related mortality rate 0.033% (based on units sold)

Comparative MAUDE/IMS data for IVC filter fatalities (through Q4 2004):

Rates	Fatalities	Migration
SNF	0.000%	0.003%
Recovery	0.041%	0.099%
Vena Tech	0.007%	0.055%
Greenfield	0.008%	0.023%
Bird's Nest	0.015%	0.030%
Tulip	0.013%	0.033%
TrapEase	0.012%	0.012%
OptEase	0.029%	0.010%

MAUDE Fatalities are associated with reports of migration, caval perforation, caval thrombis, PE, and failed deployment.

Confidential

Page 1 of 2



- 51 reports of filter fractures have been reported to date (rate of 0.188%)
- 18/51 cases involved fragments migrated to the heart/lung (0.066%)
- 1/51 fractures the patient developed serious symptoms requiring open heart surgery to correct/remove
- 2/51 fractures the patient required a sternotomy to remove a wire two months after filter removal
- No other injuries have been reported
- A literature review reveals that filter fracture is a known complication of IVC filters, with reported rates in the range of 0.05% - 10%

Confidential Page 2 of 2